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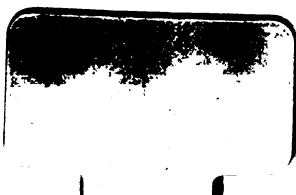
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YEAR-BOOK

OF THE

ROYAL SOCIETY OF LONDON.

1907

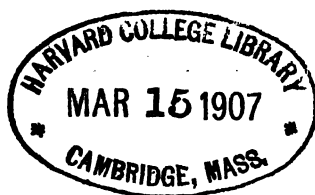
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The Society

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MEMORANDUM AS TO THE WISHES OF THE COUNCIL IN RESPECT OF BENEFACTIONS TO THE SOCIETY.

From time to time since its foundation, the Royal Society has, through the generosity of benefactors, received funds, now amounting to a very considerable sum.

In the majority of cases the terms of gift have limited the application of the money to certain definite purposes, and, in particular, to the award of medals or other prizes for scientific discoveries or other contributions to the advancement of Natural Knowledge.

Every year the Council have to award several medals, including the Copley, Royal, Rumford, Davy, Darwin, Buchanan, Sylvester, and Hughes Medals, or some of these, and have been led by experience to the conclusion that it is neither to the advantage of the Society nor in the interests of the advancement of Natural Knowledge that this already long list of medals should in future be added to, and that, therefore, no further bequests to be awarded as prizes for past achievements should be accepted by the Society.

They desire, however, to make known that the funds belonging absolutely to the Society, funds tied down by no special directions as to their applications, funds which the Society are free to use for general purposes, are very few indeed. And the President and Council have again and again had the experience that the usefulness of the Society for the advancement of Natural Knowledge has been greatly hampered by the lack of funds of which they could freely make use according to their own judgment.

The President and Council are confident that it would not be difficult, wherever desirable, to associate in some conspicuous manner with any gift to the Society the name of the benefactor, and indeed they would wish to do so.

The President and Council accordingly desire to make it generally known that while they will willingly receive gifts to be applied to special objects or for the benefit of particular sciences indicated by the donors, they consider that, in view of the varying necessities of Science, the most useful benefactions are those which are given to the Society in general terms for the advancement of Natural Knowledge.

YEAR-BOOK

OF

THE ROYAL SOCIETY.

1907.

CALENDAR.

1907.

JANUARY	17.	<i>Ordinary Meeting at 4.30 P.M.</i>		
"	24.	"	"	"
"	31.	"	"	"
"	31.	<i>Last day for receiving applications for Government Grants.</i>		
FEBRUARY	7.	<i>Ordinary Meeting at 4.30 P.M.</i>		
"	14.	"	"	"
"	21.	"	"	"
"	28.	"	"	"
MARCH	7.	"	"	"
"	14.	"	"	"
"	25.	<i>Annual Contributions due.</i>		
APRIL	18.	<i>Ordinary Meeting at 4.30 P.M.</i>		
"	25.	"	"	"
MAY	2.	<i>Election of Fellows at 4 P.M.</i>		
"	2.	<i>Ordinary Meeting at 4.30 P.M.</i>		
"	9.	"	"	"
"	23.	"	"	"
"	30.	"	"	"
JUNE	6.	"	"	"
"	13.	"	"	"
"	20.	"	"	"
"	27.	"	"	"
NOVEMBER	7.	"	"	"
"	14.	"	"	"
"	21.	"	"	"
"	28.	"	"	"
"	30.	<i>Anniversary Meeting at 4 P.M. (Saturday).</i>		
DECEMBER	5.	<i>Ordinary Meeting at 4.30 P.M.</i>		
"	12.	"	"	"
"	31.	<i>Last day for receiving certificates of Candidates for Election.</i>		

THE LIST OF THE ROYAL SOCIETY, JAN. 1, 1907.

HIS SACRED MAJESTY KING EDWARD VII., PATRON.

HIS ROYAL HIGHNESS THE PRINCE OF WALES, K.G.
 HIS ROYAL HIGHNESS THE DUKE OF CONNAUGHT AND
 STRATHEARN, K.G.

THE COUNCIL.

THE RT. HON. THE LORD RAYLEIGH, O.M., Sc.D., M.A., D.C.L.—
 PRESIDENT.

ALFRED BRAY KEMPE, M.A.—TREASURER AND VICE-PRESIDENT.

PROF. JOSEPH LARMOR, D.Sc., D.C.L., LL.D.—SECRETARY.

SIR ARCHIBALD GEIKIE, D.C.L., Sc.D., LL.D.—SECRETARY.

FRANCIS DARWIN, M.A., M.B.—FOREIGN SECRETARY.

THE RT. HON. THE LORD
 AVEBURY, D.C.L.

SIR BENJAMIN BAKER, K.C.B.—
 VICE-PRESIDENT.

HENRY FREDERICK BAKER,
 Sc.D.

PROF. J. NORMAN COLLIE, Ph.D.
 PROF. WYNDHAM R. DUNSTAN,
 M.A.

PROF. DAVID FERRIER, M.D.—
 VICE-PRESIDENT.

PROF. SYDNEY J. HICKSON, D.Sc.

SIR WILLIAM HUGGINS, K.C.B.,
 O.M.—VICE-PRESIDENT.

PROF. EDWIN RAY LANKESTER,
 M.A.

HUGH FRANK NEWALL, M.A.

ALEXANDER SCOTT, D.Sc.

ALBERT CHARLES SEWARD,
 M.A.

PROF. WILLIAM JOHNSON
 SOLLAS, Sc.D.

PROF. ERNEST HENRY
 STARLING, M.D.

PROF. SILVANUS PHILLIPS
 THOMPSON, D.Sc.

AUGUSTUS DESIRÉ WALLER,
 M.D.

This Council will continue till November 30, 1907.

ROBERT HARRISON—Asst. SECRETARY
 AND LIBRARIAN.

OFFICE STAFF.

T. E. JAMES (*Clerk*).

A. H. WHITE (*Assistant Librarian*).

F. A. TOWLE (*Clerk to the Government Grant Committee*).

R. L. SHEPPARD.

A. I. MACKIE.

FELLOWS OF THE ROYAL SOCIETY, JANUARY 1, 1907.

Date of Election		Service on Council, &c.
1876	Abney, Sir William de Wiveleslie, K.C.B. D.C.L. (Dunelm.) D.Sc. (Vict. and Dub.) F.I.C. F.C.S. F.R.A.S., late Principal Assistant Secretary, Board of Education, South Kensington, retired Capt. R.E. Medal: <i>Bumford. Measham Hall, Leicestershire; Rathmore Lodge, Bolton Gardens South, Earl's Court, S.W.; and Athenæum Club, S.W.</i>	1883-85 91-93
1905	Adami, John George, M.A. M.D. (Camb. McGill) F.R.S.E. Professor of Pathology, McGill University, Montreal. 331 <i>Peel Street, Montreal, Canada.</i>	
1872	Adams, William Grylls, M.A. D.Sc. F.G.S. F.C.P.S. Vice-President of Physical Soc.; Past Pres. Inst. Elec. Eng.; Late Professor of Natural Philosophy and Astronomy in King's College, London.	1882-84 96-98
1889	Aitken, John, F.R.S.E. LL.D. (Glasg.). <i>Ardenlea, Falkirk, N.B.</i>	
1901	Alcock, Alfred William, Lieut.-Colonel I.M.S. C.I.E. M.B. LL.D. C.M.Z.S. Superintendent of the Indian Museum, and Professor of Zoology in the Medical College, Calcutta. Hon. Mem. Nederlandsche Dierkund. Vereen., Calif. Acad. Sci. <i>Indian Museum, Calcutta.</i>	
1880	Allbutt, Thomas Clifford, M.A. M.D. LL.D. Hon. D.Sc. (Oxon.) F.L.S. Regius Professor of Physic in the University of Cambridge. <i>St. Radegund's, Cambridge.</i>	1896-98
1891	Allerton, Right Hon. William Lawies Jackson, Lord. 27 <i>Cadogan Square, S.W.; and Allerton Hall, Chapel Allerton, Leeds.</i>	
1902	Alverstone, Richard Everard Webster, Lord, G.C.M.G., Lord Chief Justice. <i>Hornum Lodge, Kensington, W.</i>	
1906	Andrews, Charles William, D.Sc. (Lond.) F.G.S. <i>British Museum (Natural History), Cromwell Road, S.W.</i>	
1888	Andrews, Thomas, F.R.S.E. F.C.S. Mem. Inst. C.E., Telford Medallist and Prizeman, Inst. C.E., Gold Medallist and Bessemer Prizeman, Soc. Engineers. <i>Metallurgical Testing Laboratory, Wortley, near Sheffield.</i>	
1876	Armstrong, Henry Edward, Ph.D. (Lips.) LL.D. (St. Andr.) Past Pres. Chem. Soc.; Professor of Chemistry at the City and Guilds of London Central Technical College, South Kensington; Hon. Mem. Pharm. Soc. Lond. 55 <i>Granville Park, Lewisham, S.E.; and Athenæum Club, S.W.</i>	1888-90 1900-2 V.P. 1901-2
1880	Attfield, John, M.A. Ph.D. (Tüb.) F.I.C. F.C.S., late Professor of Practical Chemistry to the Pharmaceutical Society of Great Britain, Hon. Mem. Amer. Pharm. Assoc., Colls. Pharm. Philad., New York, Mass., Chic., Ontario, and Pharm. Assocs. Liverp., Manch., Maryland, Virg., Georgia, New Hampshire, and Quebec; Hon. Corresp. Mem. Soc. Pharm. Paris; Hon. Mem. Pharm. Soc. Gr. Brit., New South Wales, St. Petersburg, Austria, Denmark, East Flanders, Switzerland, Queensland, and Australasia. <i>Ashlands, Watford, Herts.</i>	

Date of Election		Service on Council, &c.
1858	Avebury, Right Hon. John Lubbock, Lord, D.C.L. (Oxon.) LL.D. (Cantab., Dubl. et Edin.) M.D. (Würzb.) V.P.L.S. F.G.S. F.Z.S. Pres. S.A. F.E.S. Trust. Brit. Mus. For. Sec. R.A.; Pruss. Ord. "Pour la Mérite"; Commandant Legion of Honour of France; Assoc. Acad. Roy. des Sci. Brux.; Hon. Mem. R. Irish Acad., N.Z. Inst., Amer. Ethnol. Soc., Anthropol. Soc. Wash. (U.S.), Brux., Firenze, Anthropol. Verein Graz., Soc. Entom. de France, Soc. Biol. Paris, Allgem. Entomol., Gesell., Soc. Géol. de la Suisse, and Soc. Helvét. des Sci. Nat.; Mem. Amer. Phil. Soc. Philad., K. Vetensk. Soc. Upsala, Westfälischen Prov. Vereins für Wiss. u. Kunst, and Soc. d'Ethn. de Paris; Corresp. Mem. Soc. Nat. des Sci. Nat. de Cherb., Berl. Gesell. für Anthropol., Soc. Romana di Antrop., Soc. d'Emul. d'Abbeville, Soc. Cient. Argentina, Soc. de Géog. de Lisb., Acad. Nat. Sci. Philad., Numis. and Ant. Soc. Philad., Amer. Entom. Soc., Soc. Españ. de Hist. Nat.; For. Assoc. Mem. Soc. d'Anthropol. de Paris; For. Mem. Amer. Antiq. Soc., K. Svenska Vetensk.-Akad., Svenska Soc. Anthropol. Geog., K. Danske Vidensk.-Selskab. <i>High Elms, Down, Kent.</i>	1861-63 70-72 78-79 93-94 1906- V.P. 1871-72 78-79 93-94
1881	Ayrton, William Edward, Past Pres. Phys. Soc. and Inst. Elect. Eng.; Professor of Electrical Engineering in the Central Technical College of the City and Guilds of London Institute. Medal: Royal. City and Guilds of London Institute, Exhibition Road, S.W.	1889-91
1885	Baird, Andrew Wilson, C.S.I. Colonel R.E. <i>Palmer's Cross, Elgin, N.B.; and East India United Service Club, S.W.</i>	
1890	Baker, Sir Benjamin, K.C.B. K.C.M.G.—Vice-President—LL.D. (Edin.) Sc.D. (Camb.) M.A.I. (Dubl.) Past Pres. Inst. C.E.; Hon. F.R.S. (Edin., N.S. Wales); Hon. Mem. Amer. Soc. Civil and Mechan. Engs., and Lit. and Phil. Soc. Manchester. <i>2 Queen Square Place, Queen Anne's Mansions, Westminster; and Athenæum Club, S.W.</i>	1892-93 V.P. 1906-
1902	Baker, Herbert Brereton, M.A. D.Sc. Student of Christ Church, Lee's Reader in Chemistry in the University of Oxford. <i>5 Norham Gardens, Oxford.</i>	
1898	Baker, Henry Frederick, Sc.D. Fellow and Lecturer of St. John's College, Cambridge, and University Lecturer in Mathematics; Past Pres. Camb. Phil. Soc. <i>A, New Court, St. John's College, Cambridge.</i>	1906-
1878	Baker, John Gilbert, F.L.S. late Keeper of the Herbarium, Royal Gardens, Kew. <i>3 Cumberland Road, Kew.</i>	1883-84
1888	Balfour, Right Hon. Arthur James, D.C.L. <i>Whittingehame, Preston-kirk.</i>	
1884	Balfour, Isaac Bayley, D.Sc. M.D. (Edin.) M.A. (Oxon.) F.R.S.E. F.L.S. F.G.S. Keeper of the Royal Botanic Garden, Edinburgh, King's Botanist in Scotland, and Professor of Botany in the University of Edinburgh; Corresp. Mem. Deutsch. Bot. Gesell., Soc. Nat. des Sci. Nat. et Math. Cherbourg, New York Acad. Sci. <i>Inverleith House, Edinburgh; and Athenæum Club, S.W.</i>	1892-94
1873	Ball, Sir Robert Stawell, Kt., Hon. M.A. (Cantab.) LL.D. F.R.A.S. M.B.I.A. Hon. Mem. Phil. Soc. Camb. and Roy. Soc. Edin.	1897-98

- Lowndean Professor of Astronomy and Geometry in the University of Cambridge. *The Observatory, Cambridge; and Athenæum Club, S.W.*
- 1899 Barrett, William F., F.R.S.E. M.R.I.A. Professor of Experimental Physics in the Royal College of Science for Ireland. 6 *De Vesce Terrace, Kingstown, Co. Dublin.*
- Barry (*see* Wolfe Barry).
- 1889 Basset, Alfred Barnard, M.A. *Fledborough Hall, Holyport, Berks.*
- 1868 Bastian, Henry Charlton, M.A. M.D. F.L.S. Coll. Reg. Med. Soc. Emeritus Professor of the Principles and Practice of Medicine, University College; Consulting Physician to University College Hospital; Fellow of Univ. Coll. London; Hon. M.D. Royal University, and Hon. Fellow Roy. Coll. Phys., Ireland; Corr. Mem. Roy. Acad. Med. Turin, Med. Chir. Soc. Bologna, and Soc. Psychol. Physiolog. Paris. 8A *Manchester Square, W.*
- 1894 Bateson, William, M.A., Fellow of St. John's College, Cambridge. 1901-03
Medal: Darwin. *Merton House, Grantchester, Cambridge.*
- 1903 Bayliss, William Maddock, M.A., D.Sc. (Oxon). Assistant Professor of Physiology, University College, London. *St. Cuthbert's, West Heath Road, Hampstead, N.W.*
- 1892 Beddard, Frank Evers, M.A. (Oxon.) F.R.S.E. F.Z.S. F.E.S. Prosector of the Zoological Society. Corresp. Mitgl. d. Kön. Böhm. Ges. d. Wissensch. *Zoological Society's Gardens, Regent's Park, N.W.*
- 1873 Beddoe, John, M.D. F.R.C.P. LL.D. (Edin.) B.A., Officier (1^{re} classe) de l'Instr. Publ. France; Vice-Pres. Anthropol. Inst.; Corresp. Mem. Anthropol. Soc. Berlin; Swedish Soc. Anthropol. and Geogr.; Soc. Romana di Antrop.; For. Assoc. Mem. Soc. Anthropol. Paris; Hon. Mem. Nat. Hist. Soc. Bristol, Roy. Inst. Cornwall, Philos. Inst. Bath, Anthropol. Soc. Brussels and Washington, Acad. Anthropol. New York, Amer. Antiqu. Soc., Hist. Soc. Dallas, Texas, and of Imp. Soc. Friends of Sci., Moscow. *The Chantry, Brudford-on-Avon; and Athenæum Club, S.W.*
- 1906 Beilby, George Thomas, F.C.S. F.I.C. Assoc. Mem. Inst. C.E. 11 *University Gardens, Glasgow.*
- 1884 Bell, James, C.B. D.Sc. (Dubl.) Ph.D. F.I.C., late Principal of the Inland Revenue Laboratory, Somerset House. 52 *Cromwell Road, Hove, Brighton.*
- 1897 Bell, Robert, I.S.O. M.D. D.Sc. LL.D. Chief Geologist of the Geological Survey of Canada. *Ottawa, Canada.*
- 1871 Besant, William Henry, Sc.D. F.R.A.S. F.C.P.S. Fellow of St. John's College, Cambridge. *St. John's College, and Spring Lawn, Harvey Road, Cambridge.*
- 1886 Bidwell, Shelford, M.A. Sc.D. LL.B. *Beechmead, Oatlands Chase, Weybridge.* 1904-06
- 1906 Blackman, Frederick Frost, D.Sc. (Lond.) Fellow of St. John's College, Cambridge, and Reader in Botany in the University. *St. John's College, Cambridge.*
- 1905 Bone, William Arthur, D.Sc. (Vict. Manc.) Ph.D. (Heidelb.), F.C.S.,

Date of
ElectionService on
Council, &c.

Sometime Bishop Berkeley Fellow of Owens College, Manchester, and Fellow of Victoria University; Lecturer in Chemistry and Metallurgy at Manchester University; Professor of Applied Chemistry (Fuel and Metallurgy) University of Leeds. *West House, Lidgett Park Road, Roundhay, Leeds; and The University, Leeds.*

- 1878 Bonney, Rev. Thomas George, D.Sc. LL.D. (Univ. McGill) Sc.D. 1880-82
(Dubl.) F.S.A. F.G.S. Soc. Phil. Cantab. Soc.; Acad. Reg. Hib. 1895
et Ebor. Soc. Honor.; Soc. Géol. Belg. et Soc. Reg. Canard. 97-99
Corresp.; Corresp. Mem. Soc. Géol. du Nord de France; Hon. V.P.
Canon of Manchester; Emeritus Professor of Geology in University 1898-99
College, London. 9 *Scroope Terrace, Cambridge.*
- 1899 Booth, Right Hon. Charles, Hon. Sc.D. (Camb.). 24 *Great Cumberland Place, W.*
- 1890 Bosanquet, Robert Holford Macdowall, M.A. Fellow of St. John's College, Oxford. *Castillo Zamora, Realejo-Alto, Tenerife.*
- 1888 Bottomley, James Thomson, M.A. D.Sc. F.R.S.E. F.C.S. 13 *University Gardens, Glasgow.*
- 1894 Boulenger, George Albert, V.P.Z.S. Corresp. Mem. R. Accad. d. Sci., 1903-05
Turin, Acad. Sci., Philadelphia, New York, Indiana, Imp. Soc. Friends of Sci., Moscow, Senckenb. Soc. Frankfort, Linn. Soc. Bordeaux, Sci. Soc. Boston, Nat. Hist. Soc. Basel, Mus. Nacion. Para, Nat. Ver., Magdeburg, Hon. Mem. Soc. Sci. Chili. 8 *Courtfield Road, South Kensington, S.W.; and British Museum (Nat. History), Cromwell Road, S.W.*
- 1895 Bourne, Alfred Gibbs, D.Sc. Professor of Biology in the Presidency College, Madras. Fellow of University College, London. *Presidency College, Madras.*
- 1902 Bovey, Henry T., M.A. Professor of Civil Engineering and Applied Mechanics, McGill University. *McGill University, Montreal, Canada.*
- 1891 Bower, Frederick Orpen, Sc.D. (Camb.) F.L.S. F.R.S.E. Regius 1901-2
Professor of Botany in the University of Glasgow; Corr. Mem. Deutsch., Botan. Gesell. 1 *St. John's Terrace, Hillhead, Glasgow.*
- 1902 Boyce, Sir Rubert, Kt., M.B. Holt Professor of Pathology, University, Liverpool. *School of Pathology, University, Liverpool.*
- 1888 Boys, Charles Vernon, A.R.S.M. Officier de l'Instr. Publ. France, 1900-2
Hon. Mem. New York Acad. Sci. Medal: Royal. 27 *The Grove, Boltons, S.W.*
- 1894 Bradford, John Rose, M.D. D.Sc. Physician to University College 1903-04
Hospital; Professor of Medicine in University College, London. 8 *Manchester Square, W.*
- 1882 Brady, George Stewardson, M.D. LL.D. D.Sc. Professor of Natural History in the Durham College of Science, Newcastle. *Park Hurst, Endcliffe, Sheffield.*
- 1875 Brandis, Sir Dietrich, K.C.I.E. Ph.D. LL.D. (Edin.) F.L.S.; late Inspector General of Forests to the Government of India. *Bonn, Germany.*

Date of
Election

Service on
Council, &c.

- 1903 Bridge, Thomas William, M.Sc. (Birm.) Sc.D. (Camb.), F.L.S. F.Z.S. Mason Professor of Zoology and Comparative Anatomy in the University of Birmingham. *Ferndale, Oakfield Road, Selly Park, Birmingham.*
- 1897 Broadbent, Sir William Henry, Bart., K.C.V.O. M.D. (Lond.) LL.D. (Edin. St. Andr.) F.R.C.P. Physician in Ordinary to the King, and to H.R.H. the Prince of Wales; Consulting Physician to St. Mary's Hospital, and to the London Fever Hospital. 84 *Brook Street, W.*
- 1904 Brodie, Thomas Gregor, M.D. Professor-Superintendent, Brown Institution, University of London; Professor of Physiology, Royal Veterinary College. 8 *Hunter Street, Brunswick Square, W.C.*
- 1906 Bromwich, Thomas John l'Anson, M.A. Professor of Mathematics in Queen's College, Galway; Fellow of the Royal University of Ireland; formerly Fellow of St. John's College, Cambridge. *Reedley, Galway.*
- 1879 Brown, Alexander Crum, D.Sc. LL.D. M.D. Professor of Chemistry in the University of Edinburgh. 8 *Belgrave Crescent, Edinburgh.* 1891-92
- 1898 Brown, Ernest William, M.A. Sc.D. Professor of Mathematics in Haverford College. *Haverford College, Haverford, Pennsylvania, U.S.A.*
- 1889 Brown, Horace T., LL.D. (Edin.) F.C.S. F.I.C. F.G.S. F.L.S. 1899-1901
Medal: Royal. 52 *Nevern Square, Kensington, S.W.*
- 1902 Brown, John. Mem. Phys. Soc. *Longhurst, Dunmurry, Belfast.*
- 1883 Browne, Sir James Crichton, Kt., M.D. LL.D. F.R.S.E. 61 *Carlisle Place Mansions, Victoria Street, S.W.*
- 1899 Bruce, David, C.B. M.B., Colonel R.A.M.C. Medal: Royal. Army 1904-05
Medical Department, War Office, Whitehall, S.W.
- 1874 Brunton, Sir T. Lauder, Kt., M.D. Sc.D. LL.D. (Edin.) Hon. LL.D. 1882-84
(Aberdeen) Coll. Reg. Med. Soc. 10 *Stratford Place, Oxford Street, W.; and Athenæum Club.* 1905-06
V.P.
1905-06
- 1895 Bryan, George Hartley, Sc.D. Professor of Mathematics in the University College of North Wales. *Plas Gwyn, Bangor, N. Wales.*
- 1893 Bryce, Right Hon. James, D.C.L. Hon. Fellow, Trinity and Oriel Colleges, Oxford; Corr. Mem. Inst. de France; Acad. Roy. des Sci. Brux.; R. Accad. delle Sci. Torino, Soc. Romana di Storia Patria; Massachusetts Hist. Soc. 54 *Portland Place, W.* 1899-1900
- 1898 Buchan, Alexander, M.A. LL.D. F.R.S.E. Sec. Scott. Meteorol. Soc. 2 *Dean Terrace, Edinburgh.*
- 1887 Buchanan, John Young, M.A. F.R.S.E. F.C.S. F.R.G.S. *Christ's College, Cambridge.*
- 1890 Burbury, Samuel Hawksley, M.A. 17 *Upper Phillimore Gardens, Kensington, W.*
- 1900 Burch, George James, M.A. D.Sc. (Oxon.). 28 *Norham Road, Oxford.*
- 1893 Burnside, William, M.A. D.Sc. (Dubl.) Hon. Fellow of Pembroke College, Cambridge; Professor of Mathematics, Royal Naval College, Greenwich. Medal: Royal. *The Croft, Bromley Road, Catford, S.E.* 1901-02

Date of Election	Service on Council, &c.
1904 Burrard, Sidney Gerald, Lieut.-Colonel R.E. Superintendent of the Trigonometrical Survey of India. <i>Dehra Dun, India.</i>	
1894 Callendar, Hugh Longbourne, M.A.; late Fellow of Trinity College, Cambridge; Professor of Physics at the Royal College of Science, London; LL.D. (McGill Univ.) F.R.S. (Canada). Medal: <i>Bumford. 49 Grange Road, Ealing, W.</i>	1902-04
1905 Campbell, John Edward, M.A. (Oxon.) Fellow and Tutor of Hertford College, Oxford, and Mathematical Lecturer in University College, Oxford. <i>25 St. Margaret's Road, Oxford.</i>	
1871 Carruthers, William, F.L.S. F.G.S. F.R.P.S.E. Fell. Bot. Soc. Edin.; Corresp. Mem. Acad. Nat. Sci. Philad., New York Acad. Sci., Ist. Ven. Sci. Lett. ed Art., Soc. Bot. Copenh., Soc. Géol. Belg.; Hon. Memb. Manch. Lit. and Phil. Soc., Whitby Lit. and Phil. Soc., Chester Nat. Hist. Soc., Nat. Hist. Soc. Glasg., Dumf. and Gall. Nat. Hist. and Antiq. Soc.; Past Pres. Roy. Micros. Soc.; Past Pres. Linn. Soc.; late Keeper Botanical Department, British Museum; Consulting Botanist, Royal Agricultural Society of England. <i>14 Vermont Road, Norwood, S.E.</i>	1877-79
1887 Cash, John Theodore, M.D. Regius Professor of Materia Medica in the University of Aberdeen. <i>Marischal College, Aberdeen.</i>	
1882 Chamberlain, Right Hon. Joseph, D.C.L. (Oxon.) LL.D. (Camb. Glasg. Dubl.) Chancellor of the University of Birmingham. <i>40 Prince's Gardens; and Athenæum Club, S.W.</i>	
1894 Cheyne, William Watson, C.B. M.B. C.M. (Edin.) F.R.C.S. (Eng.) Professor of Surgery in King's College, London. <i>75 Harley Street, W.</i>	1901-02
1897 Chree, Charles, M.A. Sc.D. (Camb.) LL.D. (Aberd.) Superintendent of the Observatory Department of the National Physical Laboratory. <i>Old Deer Park, Richmond, Surrey.</i>	
1881 Christie, Sir William Henry Mahoney, K.C.B. M.A. Hon. D.Sc. (Oxon). Astronomer Royal. F.R.A.S., F.R. Met. Soc., Corr. Mem. Acad. Sci. Paris, and Imp. Acad. Sci. St. Petersburg; For. Memb. Roy. Acad. Sci. Palermo; Corr. Mem. Soc. Spettros. Ital., and Soc. Nationale des Sci. Nat. et Math. Cherbourg. <i>Royal Observatory, Greenwich, S.E.</i>	1883-85 89-91 1900-01 V.P. 1890-91 1900-01
1888 Church, Arthur Herbert, M.A. D.Sc. (Oxon.) F.S.A. F.C.S. F.I.C. Professor of Chemistry in the Royal Academy of Arts; Past President of the Mineralogical Society. <i>Shelsley, Kew Gardens.</i>	
1888 Clarke, Alexander Ross, Colonel R.E. C.B. Hon. F.C.P.S. Hon. F.R.S.E. Corr. Mem. Imp. Acad. Sci. St. Petersburg. Medal: <i>Royal. Strathmore, Reigate, Surrey.</i>	
1896 Clarke, Sir George Sydenham, Lieut.-Colonel R.E. K.C.M.G. Late Governor of the State of Victoria in the Commonwealth of Australia. <i>101 Onslow Square, S.W.; and Athenæum Club, S.W.</i>	
1872 Cleland, John, M.D. D.Sc. LL.D. Professor of Anatomy in the University of Glasgow. <i>University, Glasgow.</i>	1897-98
1848 Clerk, Henry, Major-General R.A. <i>Mountfield, 5 Upper Maze Hill, St. Leonards-on-Sea.</i>	1878-80

Fellows of the Royal Society.

9

Date of Election		Service on Council, &c.
1868	Clifton, Robert Bellamy, M.A. (Cantab. et Oxon.) F.R.A.S. Professor of Experimental Philosophy in the University of Oxford; Soc. Lit. Phil. Manc. Soc. Honor. 3 <i>Bardwell Road, Banbury Road, Oxford; and Athenæum Club.</i>	1871-73 85-87 96-98 V.P. 1896-98
1896	Collie, J. Norman, Ph.D. F.C.S. Professor of Organic Chemistry, University College, London. 16 <i>Campden Grove, Kensington, W.</i>	1905-
1903	Copeman, Sydney Monckton, M.A. M.D. (Camb.) F.R.C.P. Medical Inspector to H.M. Local Government Board. Medal: Buchanan. 57 <i>Redcliffe Gardens, S.W.</i>	
1878	Cotterill, James Henry, M.A., late Professor of Applied Mechanics, Royal Naval College, Greenwich. <i>Braeside, Speldhurst, Kent.</i>	
1906	Cowell, Philip Herbert, M.A. (Camb.). Chief Assistant in the Royal Observatory, Greenwich. 74 <i>Vanbrugh Park, Blackheath, S.E.</i>	
1878	Crawford, James Ludovic, Earl of, K.T. LL.D. F.R.A.S., Trust. Brit. Mus., Leg. Honor. Com.; Ord. Imp. Bras. Rosae Com.; Acad. Reg. Sci. Berol. Soc. Honor. 2 <i>Cavendish Square, W.; and Haigh Hall, Wigan.</i>	1878-79
1885	Creak, Ettrick William, C.B. Captain R.N. Mem. Inst. Elect. Eng. 9 <i>Hervey Road, Blackheath, S.E.</i>	1898-1900
1868	Crofton, Morgan William, D.Sc. Fellow of the Royal University of Ireland. 7 <i>John Street, Ryde, Isle of Wight.</i>	
1863	Crookes, Sir William, Kt., D.Sc. (Oxon. Ireland, Cape of Good Hope), Past Pres. Chem. Soc., Brit. Assoc., Inst. Elect. Eng.; Hon. Mem. Roy. Soc. N.S.W., Pharm. Soc., Chem. Metall. and Mining Soc. of South Africa, Amer. Chem. Soc., Amer. Philos. Soc., Roy. Soc. Sci. Upsala, Psychol. Soc. Paris, "Antonio Alzate" Sci. Soc. Mexico, Sci. Soc. Bucharest; Corresp. Mem. Bataafsche Genoots. Rotterdam, Soc. d'Encouragement pour l'Indust. Paris. Medals: Copley, Royal, Davy. 7 <i>Kensington Park Gardens, W.; and Athenæum Club, S.W.</i>	1877-79 94-96 V.P. 1895-96
1879	Cross, Right Hon. Richard Assheton, Viscount, G.C.B. G.C.S.I. D.C.L. LL.D. 12 <i>Warwick Square and Athenæum Club, S.W.; and Eccle Riggs, Broughton-in-Furness, Lancashire.</i>	1880-81
1889	Cunningham, David Douglas, M.B. C.M. (Edin.) C.I.E. F.L.S. C.M.Z.S. Lieut.-Col. Bengal Medical Service (retired); late Honorary Surgeon to the Viceroy of India; late Professor of Physiology in the Medical College and Fellow of the University of Calcutta. <i>Torre Mount, Torquay.</i>	
1891	Cunningham, Daniel John, M.D. (Edin. and Dubl.), D.Sc. D.C.L. LL.D. Professor of Anatomy in the University of Edinburgh. 18 <i>Grosvenor Crescent, Edinburgh.</i>	1898-99
1898	Curzon of Kedleston, Right Hon. George Nathaniel, Lord, G.C.S.I. G.C.I.E. D.C.L. D.L. 1 <i>Carlton House Terrace, S.W.</i>	
1880	Dallinger, Rev. William Henry, LL.D. Sc.D. (Dubl.) D.D. (Durh.) F.L.S. Vice-Pres. R.M.S.; Hon. Mem. Amer. Micros. Soc. <i>Ingleside, Newstead Road, Lee, S.E.</i>	

Date of Election		Service on Council, &c.
1882	Darwin, Francis—Foreign Secretary—M.A. and M.B. (Cantab.) F.L.S. F.Z.S., late Fellow of Christ's College, and Reader in Botany in the Univ. of Cambridge. Mem. Soc. Nat. Sci. et Math. de Cherbourg; Corr. Mem. Deutsch. Botan. Gesell. 13 <i>Madingley</i> <i>Road, Cambridge.</i>	1894-95 1902- For. Sec. 1903-
1879	Darwin, Sir George Howard, K.C.B. M.A. (Camb.). Fellow of Trin. Coll. and Plumian Professor of Astronomy, Cambridge; Doctor of Universities, viz.: Oxford, Dublin, Glasgow, Pennsylvania, Padua, Göttingen, Christiania, Cape of Good Hope (Socio onorario of Padua). Hon. Member of Academies, &c., viz.: Roy. Soc. Edin- burgh; Royal Irish, Dublin; Lincei, Rome; National, Washington; American, Boston; New York; Phil. Soc. Philadelphia; Royal, Belgium; Astron. and Phys. Soc. Toronto; Zelanti, Acireale. Medal: Royal. Newnham Grange, Cambridge.	1884-85 1886-87
1903	Darwin, Horace, M.A. (Camb.). <i>The Orchard, Cambridge.</i>	
1895	Davey, Right Hon. Horace, Lord, M.A. D.C.L. 86 <i>Brook Street, W.</i> ; <i>and Verdley Place, Fernhurst, Sussex.</i>	
1900	David, T. W. Edgeworth, B.A. (Oxon.) F.G.S. Professor of Geology in the University of Sydney. <i>The University, Sydney, N.S.W.</i>	
1867	Dawkins, W. Boyd, M.A. D.Sc. (Oxon.) F.S.A. F.G.S. Assoc. Inst. C.E. Hon. Fellow of Jesus Coll., Oxford; Professor of Geology and Palæontology in the Victoria University of Manchester; Soc. Anthropol. Berol., Acad. Sci. Nat. Philad. et Soc. Nat. Hist. Bost. Corresp. Soc. Phil. Amer. et Acad. Sci. Nov. Ebor. et Soc. Geol. Belg. Soc. Honor. <i>Fallowfield House, Fallowfield,</i> <i>Manchester; and Athenæum Club, S.W.</i>	1889-91
1861	Debus, Heinrich, Ph.D. F.C.S., late Prof. of Chemistry at the Royal Naval College, Greenwich, and Lecturer at Guy's Hospital. <i>4 Schlangenberg, Cassel, Hessen, Germany.</i>	1870-72 81-83
1892	Devonshire, Spencer Compton Cavendish, Duke of, K.G. M.A. LL.D. Hon. Mem. Inst. C.E. Chancellor of the University of Cambridge. <i>Devonshire House, Piccadilly, W.</i> ; and <i>Chatsworth,</i> <i>Derbyshire.</i>	
1877	Dewar, Sir James, Kt., M.A. V.P.C.S. F.I.C. F.R.S.E. Hon. LL.D. (Edin., Glasg. and St. And.) D.Sc. (Vict.) Hon. Mem. Inst. C.E., Lit. and Phil. Soc. Manc., Pharm. Soc. Lond., Phil. Soc. Philad., Phil. Soc. Glasg., Soc. Phys. Verein, Frankfurt, R. Ist. Lomb. di Scienze, Lettere ed Arti, Milan; Fellow of Peterhouse College, Cambridge; Jacksonian Prof. of Natural Experimental Philosophy in the University of Cambridge; Fullerian Prof. of Chemistry in the Royal Institution. Medal: Rumford. 1 <i>Scroope Terrace, Cam-</i> <i>bridge; and Royal Institution, Albemarle Street, W.</i>	1885-86 1898-1900 V.P. 1899-1900
1905	Dines, William Henry, B.A. (Camb.) F.R. Met. Soc. <i>Pyrton Hill,</i> <i>Watlington, Oxon.</i>	
1885	Divers, Edward, M.D. Pres. Soc. Chem. Indust. Past Pres. Inst. Chem. Emeritus Professor of Chemistry in the Imperial University, Japan; Second Class, Order Sacred Mirror; Third Class Order Rising Sun, Japan. 3 <i>Canning Place, Palace Gate, W.</i>	

Date of
Election

Service on
Council, &c.

- 1904 Dixon, Alfred Cardew, So.D. (Camb.) M.A. (Lond.) F.C.P.S. Professor of Mathematics, Queen's College, Belfast. *Almora, Myrtlefield Park, Belfast.*
- 1886 Dixon, Harold Bailly, M.A. F.C.S. Professor of Chemistry and Director of the Chemical Laboratories in the Victoria University of Manchester. *University, Manchester; and Beechey House, Victoria Park, Manchester.* 1902-04
- 1904 Dobbie, James Johnston, M.A. D.Sc. Director of the Museum of Science and Art, Edinburgh. *27 Polwarth Terrace, Edinburgh.*
- 1896 Downing, Arthur Matthew Weld, M.A. D.Sc. (Dubl.) F.R.A.S. F.R.G.S. Superintendent of the Nautical Almanac: Hon. Mem. Roy. Astron. Soc. Canada; Hon. Mem. Soc. Astron. Mexico. *3 Granville Park, S.E.*
- 1855 Ducie, Henry John Moreton, Earl of, F.G.S. *Tortworth Court, Falfield, Gloucestershire.*
- 1893 Dunstan, Wyndham B., M.A. (Oxon.) LL.D. (Aberd.) F.C.S. F.I.C. Hon. Mem. Aristotelian Soc.; Corr. Mem. Inst. Égyptien; Director of the Imperial Institute; formerly Professor of Chemistry to the Pharmaceutical Society of Great Britain and Lecturer on Chemistry at St. Thomas' Hospital. *Imperial Institute, South Kensington, S.W.* 1905-
- 1875 Dupré, August, Ph.D. (Heidelb.) F.C.S. F.I.C. Emeritus Professor of Chemistry to the Westminster Hospital. *2 Edinburgh Mansions, Howick Place, Westminster, S.W.; and Mount Edgumbe, Benhill Road, Sutton, Surrey.*
- Dyer (see Thiselton-Dyer).
- 1901 Dyson, Frank Watson, M.A. (Camb.) F.R.A.S. Astronomer Royal for Scotland; Professor of Astronomy in the University of Edinburgh. *Royal Observatory, Blackford Hill, Edinburgh.* 1903-05
- 1895 Elgar, Francis, LL.D. (Glasg.) F.R.S.E. F.S.A. Mem. Inst. C.E.; Fellow Royal School of Naval Architecture, V.P. Inst. Naval Architects, Chev. Lég. Hon. France, formerly Professor of Naval Architecture in the University of Glasgow. *18 Cornwall Terrace, Regent's Park, N.W.*
- 1895 Eliot, Sir John, K.C.I.E. M.A., late Meteorological Reporter to the Government of India, and Director-General of Indian Observatories. *79 Alleyn Park, Dulwich, S.E.*
- 1873 Ellery, Robert Lewis John, C.M.G. F.R.A.S.; late Government Astronomer, and Director of the Observatory. *Melbourne, Victoria.*
- 1891 Elliott, Edwin Bailey, M.A. F.R.A.S. Waynflete Professor of Pure Mathematics in the University of Oxford; Fellow of Magdalen College, Oxford. *4 Bardwell Road, Oxford.* 1899-01
- 1893 Ellis, William, F.R.A.S. F.R. Met. Soc. Memb. Inst. Elect. Eng.; late Superintendent of the Magnetical and Meteorological Department, Royal Observatory, Greenwich. *78 Coleraine Road, Blackheath, S.E.*
- 1897 Elwes, Henry John, F.L.S. F.Z.S. F.E.S. *Colesborne Park, near Cheltenham.*

Date of
ElectionService on
Council, &c.

- 1869 Esson, William, M.A. F.C.S. F.R.A.S. Savilian Professor of Geometry in the University of Oxford, Fellow of New College, Senior Bursar of Merton College. *Merton College; and 13 Bradmore Road, Oxford.*
- 1901 Evans, Arthur John, M.A. LL.D. (Edin.) D. Litt. (Dubl.) V.P.S.A. Fellow of Brasenose College, and Keeper of the Ashmolean Museum, Oxford. *Youlbury, Oxford.*
- 1864 Evans, Sir John, K.C.B. D.C.L. (Oxon., and Trin. Coll. Toronto), LL.D. (Dubl. and Toronto) Sc.D. (Camb.) Trust. Brit. Mus. F.S.A. F.L.S. F.G.S. F.C.S. F.Z.S. Assoc. I.C.E. Pres. Num. Soc. Hon. M.R.I.A. Hon. F.S.A. (Scot.) Comm. of the Ord. of St. Thiago of Port.; Corresp. Inst. de France (Acad. des Inscript.); Hon. Mem. of the Amer. Phil. Soc., Amer. Acad. Arts and Sciences, Amer. Ethnol. Soc., Num. and Ant. Soc. of Philadelphia, Amer. Num. and Archæol. Soc. Anthrop. Soc. Washington, Soc. Franç. de Numism., Acad. d'Archéol. de Belg., Soc. Géol. de Belg., Soc. Num. de Belg., Soc. Ital. d'Anthrop., Acad. Sci. and Num. Soc. Sweden, Soc. Roy. Gr. Duc. de Luxembourg, Soc. Anthrop. de Brux., et de Lyons, Soc. de Borda. Dax., Soc. Polym. du Morbihan, Soc. Suisse de Numism. and Archæol. Soc. of Athens; For. Mem. of the Soc. Ant. of Sweden, Soc. Anthrop. de Paris, and the Numism. Soc. of the Netherlands; Corr. Mem. of the Acad. Sci. Bologna, Soc. Romana di Antrop., Inst. di Corr. Arch., Acad. Valdarn., Anthrop. Soc. of Berlin, and Soc. d'Emul. d'Abbeville. *Britwell, Berkhamsted, Herts; and Athenæum Club, S.W.*
- 1899 Eversley, Right Hon. George John Shaw Lefevre, Lord, M.A. (Camb.). 18 *Bryanston Square, W.; and Abbotsworthy House, Kingsworthy, Winchester.*
- 1893 Ewart, James Cossar, M.D. Professor of Natural History in the University of Edinburgh. *The University, Edinburgh.*
- 1887 Ewing, James Alfred, Hon. M.A. (Camb.) LL.D. (St. And. Edin.) 1896-98 F.R.S.E. M. Inst. C.E.; Director of Naval Education; Hon. Mem. Lit. Phil. Soc. Manchester; Corresp. Reale Accad. Sci. Turin. **Medal: Royal.** *Royal Naval College, Greenwich; and Athenæum Club, S.W.*
- 1900 Farmer, John Bretland, M.A. (Oxon.) F.L.S. Professor of Botany in 1905-06 the Royal College of Science, London. *Claremont House, Wimbledon Common.*
- 1877 Fayer, Sir Joseph, Bart. K.C.S.I. Surgeon-General K.H.P. LL.D. 1895-96 (Edin. and St. And.) M.D. F.R.C.P. (Lond.) F.R.C.S. (Eng. and Edin.) F.R.S.E. Physician Extraordinary to the King. *Belfield, Falmouth.*
- 1899 Fenton, Henry John Horstman, M.A. Sc.D. F.I.C. F.C.S., University Lecturer in Chemistry. 19 *Brookside, Cambridge.*
- 1876 Ferrier, David—Vice-President—M.A. (Aberd.) M.D. (Edin.) LL.D. 1886-88 F.R.C.P. Professor of Neuro-pathology, King's College, London. 1906- **V.P.** **Medal: Royal.** 34 *Cavendish Square, W.; and Athenæum Club, S.W.* 1906-

Date of
Election

Service on
Council, &c.

- 1886 Festing, Edward Robert, C.B. Major-General, R.E. (retired).
Late Science Museum Director, Victoria and Albert Museum.
56 *Queen's Gate Terrace*, S.W.
- 1905 Field, Arthur Mostyn, Rear-Admiral, Hydrographer of the Navy,
F.R.A.S. F.R.G.S. *United Service Club, Pall Mall*, S.W.
- 1892 Fleming, John Ambrose, M.A. (Camb.) D.Sc. (Lond.) late Fellow of
St. John's College, Cambridge; Fellow and Professor of Electrical
Engineering in University College, London. *University College*,
Gower Street, W.C.
- 1889 Fletcher, Lazarus, M.A. (Oxon.) F.G.S. F.C.S. Keeper of Minerals 1895-97
in the British Museum. *Natural History Museum, Cromwell
Road*; and 35 *Woodville Gardens, Ealing*, W.
- 1887 Forbes, George, M.A. F.R.S.E. F.R.A.S. Mem. Inst. C.E. M.I.E.E.
Chev. Lég. Honor. Memb. Astron. Gesell. Vienna, Amer. Phil.
Soc., and Franklin Inst.; formerly Professor of Nat. Phil. in
Anderson's College, Glasgow. 34 *Great George Street*, S.W.
- 1905 Forster, Martin Onslow, D.Sc. (Lond.) Ph.D. (Würzb. F.I.C.) Assis-
tant Professor of Chemistry in the Royal College of Science,
London. 44 *Cheniston Gardens, Kensington*, W.
- 1886 Forsyth, Andrew Russell, M.A. Sc.D. (Camb.) Hon. D.Sc. (Oxon.) Hon. 1893-95
Sc.D. (Dubl. Vict.) Hon. LL.D. (Glasg.) Hon. Math. D. (Chris-
tiania) F.C.P.S. F.R.A.S. Hon. F.R.S.E. President of the London
Math. Soc. Hon. Mem. Lit. Phil. Soc. Manch., Soc. Corr. R. Ist.
Lomb.; Sadlerian Professor of Pure Mathematics in the University
of Cambridge; Fellow of Trinity College, Cambridge. Medal: 1870-72
Royal. Trinity College, Cambridge; and Athenæum Club, S.W. 77-78
- 1869 Foster, George Carey, B.A. LL.D. F.C.S. Late Principal, and formerly 83-85
Professor of Physics in University College, London. *Ladywalk*, 91-93
Rickmansworth, Herts; and *Athenæum Club*, S.W. 1901-03
V.P.
1891-93
1902-03
- 1872 Foster, Sir Michael, K.C.B. M.D. B.A. (Lond.) Hon. M.A. (Cantab.) 1876-77
D.C.L. (Oxon.) LL.D. (Glasg., St. And. and Univ. McGill) 1881-1904
Sc.D. (Dubl.) F.L.S. F.C.S. For. Mem. R. Accad. dei Lincei, Sec.
Roma, R. Accad. delle Scienze, Torino, Amer. Acad. Sci., 1881-1903
Amer. Phil. Soc.; Corresp. Étrang. Acad. Roy. de Méd. Belg.;
Hon. Mem. Roy. Irish Acad., Lit. and Phil. Soc. Manc., Asiat.
Soc. Beng., Roy. Soc. N.S. Wales, Med. Chir. Soc., Roy. Agric.
Soc., Pharm. Soc. Lond., Bost. Soc. Nat. Hist., Soc. Helvét.
des Sci. Nat., Acad. Imp. Milit. de Méd. St. Petersburg, R. Accad.
Med. Torino, Soc. Roy. Sci. Med. Nat. Brussels; Mem. Assoc.
Soc. de Biol. Paris; Mem. K. Vetensk.-Soc. Upsala; Honorary
Perpetual President of the International Congress of Physiology;
Ehrenmitglied d. Kaiser kon. Gesell. d. Aerzte, Vienna; late
Professor of Physiology in the University of Cambridge. *Great
Shelford, Cambridge*.
- 1891 Frankland, Percy Faraday, Ph.D., M.Sc. A.R.S.M. Pres. Inst. Chem. 1903-05
Professor of Chemistry in the University of Birmingham. *The
University, Birmingham*.

Date of
ElectionService on
Council, &c.

- 1877 Fraser, Sir Thomas Richard, Kt., M.D. (Edin.) F.R.C.P. & F.R.S. (Edin.) LL.D. (Aberd. and Glasg.). Professor of Materia Medica and Clinical Medicine in the University of Edinburgh. Hon. Physician to the King in Scotland. 13 *Drumsheugh Gardens, Edinburgh.*
- 1894 Froude, Robert Edmund. Superintendent of the Admiralty Experimental Works, Gosport. *North Lodge, Alverstoke, Gosport.*
- 1888 Fry, Right Hon. Sir Edward, Kt., B.A. (Lond.) D.C.L. (Oxon.) LL.D. (Edin.) F.S.A. F.L.S. Fellow of the University of London, and of University College, London; and Hon. Fellow, Balliol Coll., Oxon. *Failand House, Failand, near Bristol.*
- 1892 Gadow, Hans Friedrich, Ph.D. (Jena) Hon. M.A. (Camb.) Strickland 1899-1901
Curator and Lecturer on the Advanced Morphology of Vertebrates in the University of Cambridge. *Zoological Laboratory, Cambridge.*
- 1893 Gairdner, Sir William Tennant, K.C.B. M.D. (Edin.) Hon. M.D. (Dubl.) Hon. LL.D. (Edin.) F.R.C.P. (Edin.) Hon. F.R.C.P. (Ireland) late Professor of Medicine in the University of Glasgow; Hon. Physician in Ordinary to the King in Scotland. 32 *George Square, Edinburgh.*
- 1860 Galton, Francis, M.A. (Cantab.) D.C.L. (Oxon.) Sc.D. (Camb.) Officier 1865-66
de l'Instruction Publique, France; Corresp. Memb. of the 70-72
Geograph. Societies of Berlin and Vienna, and of Anthropol. Soc. 76-77
of Rome; Hon. Memb. of Geograph. Soc. of Italy, and Inst. 82-84
Internat. de Statistique. **Medals: Royal, Darwin.** 42 *Rutland Gate, S.W.* V.P. 1870-72
76-77
83-84
- 1899 Gamble, James Sykes, C.I.E. M.A. (Oxon.) F.L.S., late Conservator of Forests in India, and Director of the Imperial Forest School, Dehra Dun. *Highfield, East Liss, Hants; and Athenæum Club.*
- 1872 Gamgee, Arthur, M.D. F.R.C.P. (Lond.) LL.D. (Edin.) Emeritus 1886-88
Professor of Physiology in Owens College, Victoria University; late Fullerian Professor of Physiology in the Royal Institution. 5 *Avenue du Kursaal, Montreux, Switzerland.*
- 1890 Gardiner, Walter, Sc.D. (Camb.) M.A. Fellow and Bursar of Clare College, Cambridge. **Medal: Royal.** *St. Andrews, Hill's Road, Cambridge.*
- 1858 Garrod, Sir Alfred Baring, Kt., M.D. Coll. Reg. Med. Socius; late Physician Extraordinary to H.M. Queen Victoria; Consulting Physician to King's College Hospital. 10 *Harley Street, W.*
- 1882 Gaskell, Walter Holbrook, M.A. M.D. (Camb.) LL.D. (Edin. and Univ. McGill) Fellow of Trinity Hall and University Lecturer in Physiology, Cambridge; Hon. Fellow R. Med. Chir. Soc., Corr. Mem. Acad. Imp. Milit. de Méd. St. Petersburg. **Medal: Royal.** 1895-97
The Uplands, Great Shelford, near Cambridge.
- 1865 Geikie, Sir Archibald, Kt.—Secretary—D.C.L. (Oxon.) Sc.D. (Cantab. 1885-87
Dubl.) LL.D. (Edin. Glasg. St. And.) F.R.S.E. Pres. G.S. F.Z.S., late 89-93
Director-General of the Geological Survey of the United Kingdom, 1903—
and of the Museum of Practical Geology, London. Corresp. Inst. Sec. 1903—

Date of
Election

Service on
Council, &c.

- France (Acad. Sci.); Corr. Mem. Acad. Berlin, Vienna, Turin, Valdarnese del Poggio, Philad., K. Gesell. Wissen. Gött., Nat. Hist. Soc. Boston, Geograph. Soc. Italy, Netherlands; For. Mem. R. Accad. Lincei, Rome, Acad. Stockholm, Christiania, Amer. Acad. Sci. Boston; Assoc. Nat. Acad. Sci. Washington, Acad. Roy. Sci. Belgium; Hon. Mem. Inst. Civ. Eng., Phil. Soc. Camb., York, Fed. Inst. Min. Eng., K. Leop.-Carol. Deutsch Akad. Halle, Soc. Españ. Hist. Nat. Madrid, Accad. Sci. Acireale, Imp. Soc. Nat. St. Petersburg, Moscow, Soc. Min. St. Petersburg, Geol. Soc. Edinburgh, Glasgow, Liverpool, Manchester, Stockholm, Acad. Sci. New York, National Geograph. Soc. Washington. **Medal: Royal.**
3 *Sloane Court, S.W.*
- 1875 Geikie, James, LL.D. D.C.L. (Dunelm.) F.R.S.E. F.R.G.S. F.G.S. Murchison Professor of Geology and Mineralogy in the University of Edinburgh; Hon. Memb. Phil. Soc. York, Lit. Phil. Soc. Manch., Geol. Soc. Stockholm, Vidensk.-Selsk. Christiania, Geol. Palæont. Hydrol. Belg., Gesell. f. Erdk. Berlin, Soc. Geogr. Neuchâtel; Memb. Amer. Phil. Soc., Corresp. Memb. Acad. Sci. Philadelphia, Acad. Sci. New York. *Kilmorie, Colinton Road, Edinburgh.*
- 1892 Giffen, Sir Robert, K.C.B. LL.D. (Glasg.). *Chanctonbury, Haywards Heath.* 1903-04
- 1891 Gilchrist, Percy Carlyle, A.R.S.M. M. Inst. C.E., Mem. Inst. M.E., M.R.I.; Chevalier Legion of Honour of France. *Chequeur Lawn, St. Albans, Herts.*
- 1883 Gill, Sir David, K.C.B. Hon. D.Sc. (Oxon.) Hon. Sc.D. (Camb.) Hon. LL.D. (Aberd. and Edin.) Hon. F.R.S.E. F.R.A.S. F.R.G.S. Formerly His Majesty's Astronomer at the Cape of Good Hope; *Medjidie*, Third Order, Turkey; Corresp. Inst. Fr. (Acad. Sci.); Corresp. Mem. Acad. Imp. Sci. S. Petersb., Akad. Wiss. Berl., Bureau des Longitudes, Paris, Soc. degli Spettroscop. Ital. Rome, Soc. Nat. des Sci. Nat. et Math. Cherb., Soc. Geogr. Lisbon; For. Mem. Akad. Wetensch. Amsterd., Acad. Sci. Washington, R. Accad. Lincei, Rome, and Soc. Holl. des Sci. Haarlem; Hon. Mem. New York Acad. Sci., Soc. des Sci. de Finlande. **Medal: Royal.**
34 *De Vere Gardens, W.; and Athenæum Club.*
- 1875 Glaisher, James Whitbread Lee, Sc.D. (Camb. and Dubl.) Past President R.A.S. and C.P.S. and Lond. Math. Soc. *Trinity College, Cambridge.* 1883-84
90-92
- 1882 Glazebrook, Richard Tetley, M.A. Hon. Sc.D. (Vict.) F.C.P.S. Pres. Inst. Elect. Eng.; Fellow of Trinity College, Cambridge; Director of the National Physical Laboratory; late Principal of University College, Liverpool. *Bushy House, Teddington, Middlesex; and Athenæum Club, S.W.* 1892-94
- 1882 Godman, Frederick Ducane, D.C.L. (Oxon.) F.L.S. F.G.S. F.E.S. Trustee of the British Museum. 10 *Chandos Street, Cavendish Square, W.; and South Lodge, Horsham.* 1891-93

Date of
ElectionService on
Council, &c.

- 1880 Godwin-Austen, Henry Haversham, Lieut.-Col. F.Z.S. F.R.G.S. *Nore, Godalming.*
- 1902 Goldie, Right Hon. Sir George D. Taubman, K.C.M.G. Pres. Geogr. Soc. *Naval and Military Club, 94 Piccadilly, W.*
- 1905 Goodrich, Edwin Stephen, M.A. (Oxon.) F.L.S. Aldrichian Demonstrator of Comparative Anatomy in the University of Oxford; Fellow of Merton College. *Merton College, Oxford.*
- 1865 Gore, George, LL.D. (Edin.). *Inst. Sci. Research, 20 Easy Row, Birmingham.*
- 1896 Gorst, Right Hon. Sir John Eldon, Kt., K.C. M.A. Hon. Fellow of St. John's College, Cambridge. *Queen Anne's Mansions, St. James's Park, S.W.; and Howes Close, Cambridge.* 1901-08
- 1872 Goschen, Right Hon. George Joachim, Viscount, M.A., Chancellor of the University of Oxford. *Seacroft Heath, Hawkhurst, Kent.*
- 1892 Gotch, Francis, D.Sc. M.A. (Oxon.). Waynflete Professor of Physiology in the University of Oxford. *The Lawn, Banbury Road, Oxford.* 1904-06
- 1887 Gowers, Sir William Richard, Kt., M.D. F.R.C.P. Fellow of University College, London; Consulting Physician to University College Hospital; Physician to the National Hospital for the Paralysed and Epileptic. *50 Queen Anne Street, W.*
- 1896 Gray, Andrew, M.A. LL.D. (Glasg.) F.R.S.E. Professor of Natural Philosophy in the University of Glasgow. *11 The University, Glasgow.*
- 1895 Green, Joseph Reynolds, M.A. Sc.D. (Camb.) B.Sc. (Lond.) F.L.S. Professor of Botany to the Pharmaceutical Society of Great Britain. *Downing College, Cambridge.*
- 1888 Greenhill, Alfred George, M.A. Professor of Mathematics in the Ordnance College, Woolwich; Officier d'Académie, Paris; For. Mem. R. Accad. dei Lincei. **Medal: Royal.** *1 Staple Inn, W.C.* 1896-97
- 1878 Greenwell, Rev. William, M.A. D.C.L. F.S.A. Canon of Durham. *Durham.*
- 1901 Gregory, John Walter, D.Sc. F.G.S. Professor of Geology in the University of Glasgow. *The University, Glasgow.*
- 1895 Griffiths, Ernest Howard, M.A. Principal and Professor of Physics, University College of South Wales and Monmouthshire; Fellow of Sidney Sussex College, Cambridge. *University College, Cardiff.*
- 1883 Groves, Charles Edward, F.C.S. F.I.C. *352 Kennington Road, S.E.*
- 1883 Grubb, Sir Howard, F.R.A.S. Hon. M.A.I. (Dubl.), Vice-Pres. Roy. Dublin Soc., Hon. Mem. Roy. Inst. Civ. Eng. Ireland, Astron. Soc. Mexico. *Rockdale, Orwell Road, Rathgar, Dublin.* 1874-76
- 1867 Günther, Albert C. L. G., M.A. M.D. Ph.D. F.L.S. F.Z.S. late Keeper of the Zoological Department in the British Museum, Soc. Reg. Scient. Upsal; Soc. Phys.-Med. ad Rhenum infer., Soc. Zool.-Bot. Vindob. Socius ord.; Reg. Acad. Panormit. Scient., Soc. Asiat. Bengal, Instit. Nov. Zel., Soc. Linn. Nov. Gall., Soc. Nat. Scrutat. Basil., Soc. Zool. Gall., Soc. Lit. et Phil. Liverpool, Soc. Roman. Zoolog. Socius Honor.; Imp. Acad. Scient. Petropol., Reg. Acad. Scient. Taurin., Reg. Acad. Scient. Suec., Soc. Senckenb. **V.P.** 1875-76

Date of
Election

Service on
Council, &c.

- Nat. Scrutat. Francof. Acad. Scient. nat. Philad., Acad. Scient. nat. Californ., Soc. Scient. nat. Cherbourg, Soc. Human. et Scient. Gall. Merid. Orient. Socius extran. Medal: Royal. *Lichfield Road, Kew Gardens, Surrey.*
- 1899 Haddon, Alfred Cort, M.A. Sc.D. M.R.I.A. University Lecturer in Ethnology, Cambridge. *Inisfail, Hills Road, Cambridge.*
- 1897 Haldane, John Scott, M.A. M.D. M.R.C.P. (Edin.) Lecturer in Physiology in the University of Oxford. 4 *St. Margaret's Road, Oxford.*
- 1906 Haldane, Right Hon. Richard Burdon, M.A. (Edin.) Hon. D.C.L. (Oxon) Rector of Edinburgh University. 28 *Queen Anne's Gate, S.W.*; and *Athenæum Club, S.W.*
- 1891 Halliburton, William Dobinson, M.D. B.Sc. F.R.C.P. LL.D. (Toronto) 1898-1900
Professor of Physiology in King's College, London. *Church 1903-04*
Cottage, 17 Marylebone Road, N.W.
- 1887 Halsbury, Right Hon. Hardinge Stanley Giffard, Earl of, M.A. D.C.L. High Steward of the University of Oxford. 4 *Ennismore Gardens, W.*
- 1863 Harcourt, Augustus George Vernon, M.A. (Oxon.) D.C.L. (Dunelm.) 1878-80
LL.D. (Univ. McGill) V.P.C.S. Late Lee's Reader in Chemistry at Christ Church. *St. Clare, Ryde, Isle of Wight*; and *Athenæum Club, S.W.*
- 1902 Hardy, William Bate, M.A. Fellow and Tutor of Gonville and Caius College. *Newnham Lea, Grange Road, Cambridge.*
- 1902 Harker, Alfred, M.A. Lecturer in Petrology, University of Cambridge. *St. John's College, Cambridge.*
- 1863 Harley, Rev. Robert, M.A. (Oxon.) F.R.A.S. Lit. et Phil. Soc. Manc. et Soc. Reg. Queensl. Soc. Honor. *Rosslyn, Westbourne Road, Forest Hill, S.E.*; and *Athenæum Club, S.W.*
- 1898 Harmer, Sidney Frederic, Sc.D. Superintendent of the University 1905-06
Museum of Zoology, and Fellow of King's College, Cambridge. *King's College, Cambridge*; and 96 *Huntingdon Road, Cambridge.*
- 1884 Hartley, Walter Noel, D.Sc. (Roy. Univ. Ireland), F.R.S.E. F.I.C. Hon. Fellow of King's College, London, Professor of Chemistry in the Royal College of Science for Ireland. *Royal College of Science, Stephen's Green, Dublin*; and 36 *Waterloo Road, Dublin.*
- 1897 Haswell, William, M.A. D.Sc. (Edin.) F.L.S. Corr. Mem. Roy. Soc. Tasman.; Mem. K. Leop. Carol. Deutsche Akad. Halle; Corr. Mem. Soc. Biol. Paris; Challis Professor of Zoology in the University of Sydney. *The University, Sydney, N.S.W.*
- 1864 Hay, Right Hon. Sir John Charles Dalrymple, Bart., Admiral, G.C.B. D.C.L. (Oxon.) LL.D. (Glas.) F.R.G.S. V.P. Inst. Naval Architects. 108 *St. George's Square, S.W.*; and *Craigenvoech, Wigtownshire, N.B.*
- 1899 Head, Henry, M.A. M.D. F.R.C.P. M.B.C.S. 143 *Harley Street, W.*
- 1906 Heape, Walter, Hon. M.A. (Camb.) F.Z.S. *Strathmore, Southwold.*
- 1891 Heaviside, Oliver, Hon. Mem. Lit. Phil. Soc. Manchester; Amer. Acad. Arts and Sci. *Bradley View, Newton Abbot, Devon.*

Date of
ElectionService on
Council, &c.

- 1866 Hector, Sir James, K.C.M.G. Ord. Cr. Pruss. M.D. F.G.S. F.L.S. F.R.S.E. C.M.Z.S. Hon. Mem. of the Royal Societies of Victoria, New South Wales, South Australia, and Tasmania; For. Mem. Amer. Acad. Sci., Amer. Inst. Mining Engs., and K. Leop. Carol. Acad.; Director of the Geological Survey, Meteorological and Weather Departments, and of the New Zealand Institute; Chancellor of the New Zealand University. *Wellington, New Zealand.*
- 1899 Hele-Shaw, Henry Selby, LL.D. (St. Andr.) M. Inst. C.E. M. Inst. M.E. formerly Principal of Transvaal Technical Institute, and Organizer of Technical Education in the Transvaal. *64 Victoria Street, Westminster, S.W.*
- 1889 Hemsley, William Botting, F.L.S. Hon. Memb. Nat. Hist. Soc. Mexico; Keeper of the Herbarium, Royal Gardens, Kew. *Royal Gardens, Kew.*
- 1875 Hennessey, John Baboneau Nickterlien, C.I.E. M.A. F.R.A.S. F.R.G.S. Late Deputy Surveyor-General in charge of the Trigonometrical Surveys, Survey of India. *Merrimu, 18 Alleyn Park, West Dulwich, S.E.; and Athenæum Club, S.W.*
- 1874 Henrici, Olaus Magnus Friedrich Erdmann, Ph.D. LL.D. (St. And.) 1882-83 Professor of Mechanics and Mathematics in the City and Guilds of London Institute. *Central Technical College, Exhibition Road, S.W.; and 34 Clarendon Road, Notting Hill, W.*
- 1892 Herdman, William Abbott, D.Sc. F.R.S.E. Pres. L.S. Professor of 1898-1900 Natural History in the University of Liverpool. *Croxteth Lodge, Ullet Road, Liverpool.*
- 1884 Herschel, Alexander Stewart, M.A. Hon. D.C.L. (Durham), F.R.A.S. Honorary Professor of Physics and Experimental Philosophy in the Durham College of Science, Newcastle-on-Tyne. *Observatory House, Slough, Bucks.*
- 1871 Herschel, John, Col. R.E. F.R.A.S. Late Deputy Superintendent, Great Trigonometrical Survey of India. *Observatory House, Slough, Bucks.*
- 1895 Heycock, Charles Thomas, M.A. Lecturer on Natural Science, King's College, Cambridge. *24 Fitzwilliam Street, Cambridge.*
- 1885 Hicks, William Mitchinson, M.A. D.Sc. Late Fellow of St. John's 1900-2 College, Cambridge; Professor of Physics in the University of Sheffield. *Leamhurst, Ivy Park Road, Sheffield.*
- 1895 Hickson, Sydney John, D.Sc. (Lond.) M.A. (Camb.) Hon. M.A. 1906- (Oxon.) F.Z.S. Hon. Fellow of Downing College, Cambridge; Professor of Zoology in the Victoria University of Manchester; Hon. Mem. K. Inst. Taal-Land-en Volkenkunde Neder.-Indië. *Ellesmere House, Withington, Manchester.*
- 1903 Hiern, William Philip, M.A. (Camb.) F.L.S. *The Castle, Barnstaple, Devon.*
- 1900 Hill, Leonard, M.B. Lecturer on Physiology in the London Hospital Medical College. *Osborne House, Loughton, Essex.*
- 1894 Hill, Micaiah J. M., M.A. Sc.D. Professor of Mathematics, University College, London. *18 Ferncroft Avenue, Hampstead, N.W.*

Fellows of the Royal Society.

19

Date of
Election

Service on
Council, &c.

- | | | |
|------|--|---|
| 1896 | Hinde, George Jennings, Ph.D. (Munich) F.G.S. <i>Ivythorn, 24 Avon-
dale Road, South Croydon.</i> | |
| 1898 | Hobson, Ernest William, Sc.D. Fellow of Christ's College, Cam-
bridge. <i>The Gables, Mount Pleasant, Cambridge.</i> | 1903-05- |
| 1895 | Holden, Henry Capel Lofft, Lieut.-Col. R.A. <i>2 St. John's Park,
Blackheath; and Royal Arsenal, Woolwich.</i> | |
| 1904 | Holland, Thomas Henry, F.G.S. Director of the Geological Survey of
India. <i>Geological Survey Office, Calcutta.</i> | |
| 1847 | Hooker, Sir Joseph Dalton, G.C.S.I. C.B.—Past President—M.D.
D.C.L. LL.D. F.L.S. F.G.S. F.R.G.S. Hon. Mem. Roy. Bot. Soc.
and Roy. Med. Chir. Soc., London; Bot. and Med. Socs., Edin.;
R.I.A., Dublin; Nat. Hist. Soc. Newcastle; Camb. Philos. Soc.;
Asiat. Soc. Beng.; and New Zeal. Institute. Pruss. Ord. " <i>Pour la
Mérite</i> ;" Member of Acad. Sci., Paris; Acad. Imp. Sci.,
St. Petersburg; K. Akad. der Wissensch., K. K. Geogr. Gesell., and
Hort. Soc. of Vienna; K. Akad. der Wissensch., Berlin; Acad.
delle Sci. dell' Istit. Bologna; Acad. Roy. des Sci. Brussels; Reale
Accad. dei Georgofili, Florence; Kong. Dansk. Vidensk. Selsk.
Copenh.; K. Gesell. der Wiss. Gött.; K. Danske Vidensk. Selskab.
Stockholm; K. Vetensk. Soc., Upsala; K. Phys.-oekonom. Gesell.
Königsb.; Soc. Vellosiana Rio de Janeiro; K. Leopold.-Carol.
Deut. Akad. der Naturf., Halle; Senck. Naturf. Gesell. Frankf. a
M.; K. Baier. Bot. Gesell., Ratisbon; R. Accad. dei Lincei, Rome;
Amer. Acad. of Sci., Boston. Corresp. Mem. of Dublin Nat. Hist.
Soc. and Agricult. Soc. of Paris. For. Mem. of Acad. de Méd.,
Paris, and Nat. Acad. of Sci., Washington. Medals: Copley,
Royal, Darwin. <i>The Camp, Sunningdale, Berkshire.</i> | 1853-54
56-58
62-64
70-80
84-86

Pres.
1873-78

V.P.
1857-58
63-64
78-80
84-86 |
| 1905 | Hopkins, Frederick Gowland, M.A. (Camb.) D.Sc. M.B. (Lond.).
M.R.C.S. L.R.C.P. F.I.C. Reader in Chemical Physiology in the
University of Cambridge; Lecturer of Emmanuel College.
<i>Stafford House, Wordsworth Grove, Newnham, Cambridge.</i> | |
| 1900 | Horne, John, LL.D. (Aberd.) F.R.S.E. F.G.S. Assistant Director of the
Geological Survey. <i>Geological Survey Office, Sheriff Court Build-
ings, Edinburgh; and 12 Keith Crescent, Blackhall, Midlothian.</i> | |
| 1886 | Horsley, Sir Victor Alexander Haden, Kt., B.S. F.R.C.S. M.D. (Halle),
late Professor of Pathology in University College, London. Medal:
Royal. <i>25 Cavendish Square, W.; and Athenæum Club, S.W.</i> | 1898-99 |
| 1902 | Hough, Sydney Samuel, M.A. (Camb.). His Majesty's Astronomer at
the Cape of Good Hope. <i>Royal Observatory, Cape Town.</i> | |
| 1893 | Howorth, Sir Henry Hoyle, K.C.I.E. D.O.L. <i>30 Collingham Place,
Cromwell Road, S.W.</i> | |
| 1884 | Hudleston, Wilfrid H., M.A. F.G.S. F.C.S. <i>8 Stanhope Gardens,
South Kensington, S.W.</i> | |
| 1865 | Huggins, Sir William, K.C.B. O.M.—Past President and Vice-
President—D.C.L. (Oxon.) LL.D. (Cantab. Edin. Dublin et St.
And.) D.Sc. (Vict.) Ph.D. (Lugd. Bat.) Hon. Ph. Nat. D. (Heidel-
berg) Hon. F.R.S.E. F.R.A.S. Ord. Imp. Bras. Rosae; Comm. Inst.
Fr. (Acad. Sci.), Acad. Reg. Sci. Berol., Soc. Reg. Sci. Gött. et Soc. | 1866-68
69-71
80-82
88-89
95-97 |

Date of
Electionservice on
Council, &c.

- Spettros. Ital. Mem. Corr.; Acad. Lync. Romæ Soc.; Acad. Sci. Reg. Boruss., Soc. Phil. Amer. Philad., Acad. Amer. Art. et Sci. Boston, Acad. Nat. Sci. Washington, Reg. Sci. Hafn., Physiogr. Lund, Reg. Boie. Marob. Acad. Reg. Sci., Acad. Reg. Hib., Soc. Reg. Dubl., Lit. Phil. Manc., Soc. Astr. de France, Soc. Astr. et Phys. Toronto, Soc. Hist. Dallas et Soc. Reg. Nov. Camb. Austr. Soc. Photo. Reg. Lond. Soc. Honor.; Russ. Ast. Soc., Ast. Soc. Mex. et Soc. Nat. Cherbourg, Soc. Phil. Reg. Glasc., Soc. Phys. Roterod., Soc. Holl. Sci. Harl., For. Mem. **Medals:** Copley, Rumford, Royal. 90 *Upper Tulse Hill*; and *Athenæum Club*, S.W.
- 1889 Hughes, Thomas McKenny, M.A. Trin. Coll. Camb. F.G.S. F.S.A. Professorial Fellow of Clare College, Camb.; Chev. Ord. SS^{rum}. Maur. et Lazar. Ital.; Corresp. Memb. Soc. Géol. de Belg. and Soc. Géol. de Fr.; Woodwardian Professor of Geology in the University of Cambridge. *Ravensworth, Brooklands Avenue, Cambridge.*
- 1867 Hull, Edward, M.A. LL.D. (Glasg.) F.G.S.; late Director of the Geological Survey of Ireland, and Professor of Geology in the Royal College of Science; Master in Engineering (Hon. Caus. Dubl.); Hon. Mem. Acad. Sci. Amer. Philad., Soc. Géol. Belg., Geol. Soc. Edin., Glasg., Manch. 14 *Stanley Gardens, Notting Hill, W.*
- 1882 Hutchinson, Jonathan, LL.D. (Glasg. and Camb.) M.D. (Dubl.) F.R.C.S. Hon. D.Sc. (Oxon.) Corr. Mem. Soc. Chir. Paris; Hon. Mem. Soc. Dermat. Nov. Ebor. Formerly President of and Professor of Pathology and Surgery in the Royal College of Surgeons. 15 *Cavendish Square, W.*
- 1906 Iveagh, Edward Cecil Guinness, Viscount, K.P. Hon. LL.D. (Dubl.). 5 *Grosvenor Place, S.W.*; and *Athenæum Club.*
- 1901 Jackson, Sir Henry Bradwardine, K.C.V.O. Rear-Admiral. Controller of the Navy. 314 *Minster House, St. James' Court, Buckingham Gate, S.W.*
- 1878 Jackson, John Hughlings, M.D. Coll. Reg. Med. Soc., Consulting Physician to the London Hospital. 3 *Manchester Square, W.*
- 1885 Japp, Francis Robert, M.A. LL.D. (St. And.) F.I.C. F.C.S. Professor of Chemistry in the University of Aberdeen. *University, Aberdeen.*
- 1906 Jeans, James Hopwood, M.A. Fellow of Trinity College, Cambridge; sometime University Lecturer in Mathematics, Cambridge; Professor of Applied Mathematics in Princeton University. *Princeton, New Jersey, U.S.A.*
- 1894 Jervis-Smith, Rev. Frederick John, M.A. (Oxon.) University Lecturer in Mechanics, and Millard Lecturer in Experimental Mechanics Trinity College, Oxford. *Batramsley House, Lymington, Hants.*
- 1892 Joly, John, M.A. D.Sc. F.G.S. Professor of Geology and Mineralogy in the University of Dublin. *Somerset, Temple Road, Rathmines, Dublin.*
- 1872 Jones, Thomas Rupert, F.G.S. Hon. Mem. Gesell. Isis, Dresden, Soc. Belg. de Microsc., Soc. Géol. Hydrol. Palæontol. Brux., Geol.

1900-

V.P.

1870-71

95-97

1906-

Pres.

1900-05

Date of
Election

Service on
Council, &c.

- Assoc. Lond., Geol. Soc. Glasg., Roy. Irish Geol. Soc., and Anthropol. Inst. Lond.; Corresp. of the K.-K. Geolog. Reichsanst., Wien, Acad. Nat. Sci. Philad., Roy. Malacol. Soc. Belg., and Geol. Soc. Edin. *Penbryn, Chesham Bois Lane, Chesham, Bucks.*
- 1877 Judd, John Wesley, C.B. LL.D. F.G.S. Formerly Professor of Geology in the Royal College of Science, London, and Dean of the College; Soc. Phil. Ebor., Sci. Nat. Deva., Soc. Reg. Sydney, Soc. Asiat. Beng., Soc. Géol. du Nord, France, Soc. Belg. de Géol. de Pal. et d'Hydrol., Soc. Honor.; Acad. Sci. Nat. Philad., Soc. Géol. Belg. Brux., Inst. Imp. Geol. Vindob. Corresp. *Orford Lodge, 30 Cumberland Road, Kew; and Athenæum Club, S.W.* 1887-89
1902-04
V.P.
1902-04
- 1851 Kelvin, Right Hon. William Thomson, Lord, O.M.—Past President—Chancellor of the University of Glasgow. G.C.V.O. D.O.L. (Oxon.) LL.D. (Camb. Dubl. Edin. Glasg. Princeton, Toronto) F.R.S.E. Hon. Mem. Inst. C.E., and Elect. Eng., late Professor of Natural Philosophy in the University of Glasgow, and Fellow of St. Peter's College, Cambridge; Grand Officer of the Legion of Honour of France. Ord. of First Class of the Sacred Treasure of Japan; Knt. Pruss. Ord. "*Pour le Mérite*"; Comm. Ord. of Leopold, Belgium; Comm. Imp. Ord. of the Rose, Brazil; Assoc. Étrang. Inst. Fr. (Acad. Sci.) Paris; Corresp. Mem. R. Ist. Lomb. Milan, R. Accad. dei Lincei, Rome; For. Mem. Königl. Preuss. Akad. Berl., Königl. Gesell. Wiss. Gött., Soc. Ital. di Scienze, Milan, Soc. Reale di Napoli, Kongl. Svenska Vetenskaps Akad. Stockholm, Acad. Nat. Sci. Philad.; Hon. Mem. Acad. Imp. Sci. Vienna, Acad. Nov. Lync. Rom., United Service Inst. Lond., Lit. and Phil. Soc. Manch., Phil. Soc. Glasg., Roy. Irish Acad., Asiat. Soc. Bengal. **Medals:** Copley, Royal. *Netherhall, Largs, Ayrshire; 15 Eaton Place, S.W., and Athenæum Club, S.W.* 1890-96
Pres.
1890-95
- 1881 Kempe, Alfred Bray, M.A.—Treasurer and Vice-President—*2 Paper Buildings, Temple, E.C.; and 19 Pembroke Square, W.* 1897-
Treas.
1898-
- 1887 Kennedy, Sir Alexander B. W., LL.D. Pres. Inst. C.E. Past Pres. Inst. M.E., Emeritus Professor of Engineering and Mechanical Technology in University College, London. *1 Queen Anne Street, Cavendish Square, W.; and Athenæum Club, S.W.* 1895-96
- 1890 Kerr, Rev. John, LL.D. Mathematical Lecturer in the Free Church Training College, Glasgow. **Medal:** Royal. *31 Lacrosse Terrace, Hillhead, Glasgow.*
- 1902 Kidston, Robert, F.R.S.E. *12 Clarendon Place, Stirling, N.B.*
- 1887 King, Sir George, K.C.I.E. M.B. LL.D. F.L.S. Late Director of the Botanical Survey of India, Superintendent of the Royal Botanical Gardens, Calcutta, and of the Government Cinchona Plantations, Darjeeling. *Athenæum Club; and c/o Messrs. Grindlay and Co., 54 Parliament Street, S.W.*
- Kingsburgh, Lord (*see* Macdonald, Sir J. H. A.).
- 1897 Kipping, F. Stanley, D.Sc. (Lond.) Ph.D. (Munich). Professor of Chemistry, University College, Nottingham. *University College, Nottingham.*

Date of Election		Service on Council, &c.
1887	Kirk, Sir John, G.C.M.G. K.C.B. M.D. LL.D. D.C.L. (Oxon.) Sc.D. (Camb.) F.L.S. F.R.G.S. <i>Wavertree, Sevenoaks, Kent; and Athenæum Club, S.W.</i>	1893-95 V.P. 1894-95
1875	Klein, Edward Emanuel, M.D. Lecturer on Advanced Bacteriology in the Medical School, St. Bartholomew's Hospital. <i>Harewood, Riverdale Gardens, Twickenham Park.</i>	1888-90
1884	Lamb, Horace, M.A. (Cantab.) D.Sc. (Oxon.) LL.D. (Glasg.) Professor of Mathematics in the Victoria University of Manchester. Medal: Royal. <i>6 Wilbraham Road, Fallowfield, Manchester.</i>	1894-6
1905	Lamplugh, George William, F.G.S. F.R.G.S., H.M. Geological Survey, Jermyn Street, S.W. <i>13 Beaconsfield Road, St. Albans, Herts.</i>	
1883	Langley, John Newport, M.A. Sc.D. (Camb.) Hon. LL.D. (St. Andrews). Professor of Physiology in the University of Cambridge; Fellow of Trinity College; Corr. Mem. Soc. de Biol., Paris, Senck. Naturf. Gesell. Frankf., and Royal Military Acad. of Med., St. Petersburg; Hon. Mem. Soc. Aliéniste et Neurol. Univ. Imp. Kazan., American Physiol. Soc., Corr. Mem. K. K. Gesell. d. Aerzte, Vienna. Medal: Royal. <i>Hedgerley Lodge, Madingley Road, Cambridge; and Athenæum Club, S.W.</i>	1897-98 1904-05 V.P. 1904-05
1875	Lankester, Edwin Ray, M.A. (Oxon.) LL.D. (St. And.) Director of the Natural History Departments, British Museum; late Fullerian Professor of Physiology in the Royal Institution; late Linacre Professor of Comparative Anatomy and Fellow of Merton College, Oxford; Honorary Fellow of Exeter College, Oxford; Corr. Inst. Fr. (Acad. Sci.); Hon. Mem. Camb. Phil. Soc., Roy. Phys. Soc. Edin., Soc. de Biol. Paris, and New York Acad. Sci.; Corr. Mem. Acad. Imp. Sci. St. Petersburg, Acad. Nat. Sci. Philadelphia; For. Mem. R. Accad. dei Lincei, Böhm. Gesell. Wiss., Roy. Soc. Sci. Gött., Amer. Acad. Arts and Sci. Boston; For Assoc. U. S. Nat. Acad. Sci.; Mem. Amer. Phil. Soc.; Assoc. Roy. Acad. Belg. Medal: Royal. <i>British Museum (Natural History), Cromwell Road, S.W.; and Athenæum Club, S.W.</i>	1882-83 88-90 94-96 1905- V.P. 1895-96 82-83
1888	Lapworth, Charles, LL.D. (Aberd.), F.G.S. Professor of Geology in the University of Birmingham. Medal: Royal. <i>48 Frederick Road, Edgbaston, Birmingham.</i>	1895-97
1892	Larmor, Joseph—Secretary—M.A. D.Sc. (Lond., Dub., Oxon.) LL.D. (Glasg.) D.C.L. (Durh.) F.R.A.S., Hon. Mem. Amer. Acad. Arts and Sci., Lit. and Phil. Soc., Manc. Lucasian Professor of Mathematics in the University of Cambridge. Fellow of St. John's College, Cambridge; Past. Pres. Camb. Phil. Soc.; formerly Professor of Natural Philosophy in Queen's College, Galway, and Fellow of the Royal University of Ireland. <i>St. John's College, Cambridge.</i>	1897-99 1901- Sec. 1901-
1890	Lea, Arthur Sheridan, M.A. Sc.D. Fellow, and formerly Lecturer in Physiology, and Tutor of Gonville and Caius College, sometime Assistant Lecturer of Trinity College, and University Lecturer, Cambridge. <i>Sunnyside, Sidcup, Kent.</i>	

Date of
Election

Service on
Council, &c.

- 1906 Lees, Charles Herbert, D.Sc. Professor of Physics in the East London College, Mile End, E. *Greenacres, Mayfield Avenue, Woodford Green, Essex.*
- 1898 Lindley, Right Hon. Nathaniel, Lord. *The Lodge, East Carlton, Norwich; and Athenæum Club, S.W.*
- 1898 Lister, Arthur, F.L.S. *Leytonstone, Essex.*
- 1860 Lister, Right Hon. Joseph, Lord, O.M.—Past President—B.A. and M.B. (Lond.) F.R.C.S.D.C.L. (Oxon.) Hon. M.D. (Dubl. Würzburg, Bologna, Buda Pest, Vienna) LL.D. (Camb. Edin. Glasg. Toronto and Univ. McGill) D.Sc. (Vict.) Emeritus Professor of Clinical Surgery, King's College, London, Serjeant-Surgeon in Ordinary to the King. Knt. Grand Cross Ord. Danebrog; Knt. Pruss. Ord. "Pour le Mérite"; Assoc. Étrang. Inst. Fr. (Acad. Sci.); Hon. Mem. R.I.A.; Hon. Mem. Asiat. Soc. Bengal, Amer. Acad. Arts and Sci., and Acad. Imp. Milit de Méd., St. Petersburg. **Medals:** Copley, Royal. 12 *Park Crescent, Portland Place, W.*
- 1900 Lister, Joseph Jackson, M.A. F.Z.S. *St. John's College, Cambridge.*
- 1879 Liveing, George Downing M.A. Sc.D. (Dubl.) Professor of Chemistry in the University of Cambridge; Fellow of St. John's College, Cambridge. **Medal:** Davy. *Newnham, Cambridge.*
- 1852 Liversidge, Archibald, M.A. (Camb.) LL.D. (Glasg.) Assoc. R.S.M.; Hon. F.R.S.E. F.C.S. F.I.C. F.G.S. F.R.G.S., Memb. Phil. Soc. Camb., Phys. Soc. Lond., Min. Soc. Gr. Brit., Min. Soc. Fr.; Hon. Mem. Roy. Soc. Vict., New Zeal. Inst., Roy. Histor. Soc., K. Leop. Carol. Acad. Halle; Corr. Mem. New York Acad. Sci., Senck. Naturf. Gesell. Frankf., Roy. Soc. Tasm., Roy. Soc. Queensland, Soc. d'Acclimat. Maur., Edin. Geol. Soc. Professor of Chemistry in the University of Sydney. *St. Mark's Road, Darling Point, Sydney, New South Wales.*
- 1869 Lockyer, Sir J. Norman, K.C.B. LL.D. (Glasg.) Sc.D. (Camb.) Hon. Mem. Phys. Soc. Lond., Ord. Imp. Bras. Rosae. Eq. Inst. Fr. (Acad. Sci.), Soc. pro fov. Indust. Nat. Par., Soc. Reg. Sci. Gött., Frank. Inst. Philad., Soc. Phys., Soc. Reg. Med. Brux., Soc. Spettros. Ital., Reg. Sci. Panorm., Bataaf. Genoots. Roterod. et Hist. Nat. Genev. Mem. Corr.; Acad. Reg. Linc. Romæ. et Soc. Phil. Amer. Philad. Socius.; Soc. Lit. et Phil. Manc., Acad. Gioen. Sci. Nat. Catan., Soc. Phil. Ebor. Acad. Sci. New York, Soc. Astron. Mexico, et Univ. Lehigh Soc. Honor. **Medal:** Rumford. 16 *Penyvern Road, S.W.; and Solar Physics Observatory, South Kensington, S.W.*
- 1887 Lodge, Sir Oliver Joseph, Kt., D.Sc. (Oxon. Lond.) LL.D. (Glasg. St. And.) M. Inst. E.E. Principal of the University of Birmingham; Corr. Mem. Amer. Phil. Soc. Philad., Accad. Sci. dell' Istituto Bologna, Bataafsch Genoots. Rotterdam. **Medal:** Rumford. *Mariemont, Edgbaston, Birmingham.*
- 1902 Long, Right Hon. Walter Hume. 11 *Ennismore Gardens, S.W.*
- 1881-83
1898-1901
1902-03
For. Sec.
1898-95
Pres.
1895-1900
V.P.
1900-01
- 1891-92
1902-04
V.P.
1891-92
1903-04
- 1874-76
1885-87
1891-93
V.P.
1892-93
- 1898-94

Date of
ElectionService on
Council, &c.

- 1894 Love, Augustus Edward Hough, M.A. D.Sc. Sedleian Professor of Natural Philosophy in the University of Oxford. *84 St. Margaret's Road, Oxford.* 1902-4
- 1894 Lydekker, Richard, B.A. (Camb.). *The Lodge, Harpenden, Herts.*
- 1906 Lyons, Henry George, Capt. R.E. (retired) D.Sc. (Oxon.) F.R.G.S. F.G.S. F.R. Met. Soc. Director-General Survey Department, Egypt. *Gezira Gardens, Cairo, Egypt.*
- 1881 Macalister, Alexander, M.A. M.D. (Dubl. & Camb.) Sc.D. (Dubl.) LL.D. (Glasg. and Univ. McGill) Professor of Anatomy in the University of Cambridge. *Torriesdale, Cambridge.* 1894-95
- 1906 Macallum, Archibald Byron, M.A. LL.D. (Aberd.) M.B. (Toronto) Ph.D (Johns Hopkins) F.R.S. (Canada); Professor of Physiology and Physiological Chemistry in the University of Toronto. *59 St. George Street, Toronto, Canada.*
- 1905 MacBride, Ernest William, M.A. (Camb.) D.Sc. (Lond.) Stratheona Professor of Zoology in McGill University, Montreal. *McGill University, Montreal, Canada.*
- 1865 MacClintock, Sir Francis Leopold, Admiral, K.C.B. D.C.L. LL.D. *16 Queensberry Place, Cromwell Road, S.W.*
- 1901 Macdonald, Hector Munro, M.A. Professor of Mathematics in the University of Aberdeen. *University, Aberdeen.*
- 1859 Macdonald, Sir John Denis, K.C.B. M.D. Inspector-General of Hospitals and Fleets R.N. (retired.) *Amwell Place, Hassocks, Sussex.*
- 1888 Macdonald, Right Hon. Sir John Hay Athole (Lord Kingsburgh), K.C.B. LL.D. F.R.S.E. M.I.E.E. Lord Justice-Clerk of Scotland, and Lord President of the Second Division of the Court of Session. *15 Abercromby Place, Edinburgh.*
- 1895 Macewen, Sir William, Kt., M.D. (Glasg.) Hon. LL.D. (Glasg.) Hon. D.Sc. (Oxon.) Hon. F.R.C.S. Regius Professor of Surgery in the University of Glasgow. *3 Woodside Crescent, Glasgow.*
- 1900 MacGregor, James Gordon, D.Sc. (Lond.) LL.D. (Glasg. and Dalh.) Professor of Natural Philosophy in the University of Edinburgh. *The University, Edinburgh.*
- 1877 McIntosh, William Carmichael, M.D. (Edin.) LL.D. (St. And.) F.L.S. F.R.S.E. L.R.C.S.E. C.M.Z.S. Professor of Natural History in the University of St. Andrews; Director of the University Museum, and of the Gatty Marine Laboratory, St. Andrews; V.P. Lit. and Antiq. Soc. Perth; Hon. Mem. Roy. Zool. Soc. Ireland, and Nat. Hist. Soc. Glasgow; Hon. Fell. Scot. Nat. Hist. Soc.; Hon. Mem. Psychol. Soc. Paris, and Soc. Centrale d'Aquicult. de France. Medal: Royal. *2 Abbotsford Crescent, St. Andrews, Scotland; and Nevay Park, Meigle, Perthshire.* 1900-01
- 1884 McKendrick, John Gray, M.D. LL.D. F.R.S.E. F.R.C.P.E. Emeritus Professor of Physiology in the University of Glasgow. *Maxieburn, Stonehaven, N.B.* 1892-93
- 1881 McLeod, Herbert, F.C.S. Late Professor of Chemistry in the Royal Indian Engineering College, Cooper's Hill. *9 Coverdale, Richmond, Surrey.* 1887-80

Fellows of the Royal Society.

25

Date of
Election

Service on
Council, &c.

- | | | |
|------|--|-------------------------------------|
| 1890 | MacMahon, Percy Alexander, Major, R.A. (retired) D.Sc. (Dubl.)
Sc.D. (Camb.), F.R.A.S. Hon. Mem. C.P.S. General Secretary,
Brit. Assoc.; Deputy Warden of the Standards, Board of Trade.
Medal: Royal. <i>Queen Anne's Mansions, Westminster, S.W.;
and 7 Old Palace Yard, Westminster, S.W.</i> | 1895-97 |
| 1877 | Mallet, John William, Ph.D. (Gött.) M.D. LL.D. F.C.S. Mem. of the
Chem. Soc. of Paris, Berlin, and New York, and of the Amer.
Phil. Soc. Philad.; Assoc. Fellow of the Amer. Acad. of Arts and
Sciences, Boston; Fellow of the Coll. Phys. Philad. and Hon.
Fellow of the Med. Chir. Faculty of Maryland. <i>University of
Virginia, Albemarle Co., Virginia, United States.</i> | |
| 1903 | Mallock, Henry Reginald Arnulph. 3 <i>Victoria Street, S.W.; and
6 Cresswell Gardens, South Kensington, S.W.</i> | |
| 1900 | Manson, Sir Patrick, K.C.M.G. M.D. (Aberd.) LL.D. (Aberd.) F.R.C.P.
Hon. D.Sc. (Oxon.) Physician and Medical Adviser to the Colonial
Office; Lecturer on Tropical Medicine to St. George's Hospital,
Charing Cross Hospital, and London School of Tropical Medicine.
21 <i>Queen Anne Street, Cavendish Square, W</i> | |
| 1873 | Markham, Sir Clements Robert, K.C.B. Past. Pres. R.G.S. F.S.A. Acad.
Caes. Nat. Cur. Socius; Soc. Geog. Par., Berol., Vindob., Hist.
Philad. et Univ. Chil. Soc. Honor. <i>Athenæum Club; and 21
Eccleston Square, S.W.</i> | |
| 1891 | Marr, John Edward, M.A. Sc.D. (Camb.), Past Pres. G.S. Fellow and
Lecturer of St. John's College, Cambridge, and University
Lecturer in Geology. <i>St. John's College, Cambridge.</i> | 1904-06 |
| 1906 | Marsh, James Ernest, M.A. (Oxon.) F.C.S. <i>University Museum; and
61 Lonsdale Road, Oxford.</i> | |
| 1904 | Marshall, Hugh, D.Sc. (Edin.) F.R.S.E. F.C.S. Lecturer on Chemistry
and on Mineralogy and Crystallography in the University of
Edinburgh. 12 <i>Lonsdale Terrace, Edinburgh.</i> | |
| 1901 | Martin, Charles James, M.D. D.Sc. (Lond.) Director of the Lister
Institute; late Professor of Physiology in the University of Mel-
bourne. <i>Lister Institute of Preventive Medicine, Chelsea Bridge
Road, S.W.</i> | |
| 1895 | Martin, Sidney, M.D. B.S. B.Sc. F.R.C.P. Physician to University
College Hospital; Professor of Pathology, University College,
London. 10 <i>Mansfield Street, Cavendish Square, W.</i> | |
| 1870 | Maskelyne, Nevil Story, M.A. F.G.S. Late Professor of Mineralogy in the
University of Oxford; Hon. Fellow Wadham Coll. Oxon; Soc. Reg.
Geol. Cornub., Soc. Imp. Min. Petrop. et Soc. Hist. Nat. Bost. Soc.;
Acad. Reg. Bavar. Monach. Soc. Cor. <i>Basset Down House, Swindon.</i> | 1873-75
97-99
V.P.
1897-99 |
| 1903 | Masson, David Orme, M.A. D.Sc. (Edin.) Professor of Chemistry, Uni-
versity of Melbourne. <i>University of Melbourne, Victoria, Australia.</i> | |
| 1870 | Masters, Maxwell Tylden, M.D. M.R.C.S. F.L.S. Ord. Leopold Officer;
Inst. Fr. (Acad. Sci.), Acad. Sci. Nat. Philad., Soc. Reg. Liège et
Soc. Sci. Nat. Cherbourg Soc. Corr. <i>Mount Avenue, Ealing, W.</i> | |
| 1902 | Mather, Thomas, M.Inst.E.E. <i>Rotheay, Ajax Road, West Hampstead.</i> | |
| 1897 | Mathews, George Ballard, M.A. University Lecturer in Mathematics, | 1905-06 |

- Cambridge. Fellow of University College, London. Late Professor of Mathematics in the University College of North Wales. *St. John's College, Cambridge.*
- 1879 Matthey, George, F.C.S. Assoc. Inst. C.E. Lég. Honor. (France), Ord. Franz Josef (Austria), Great Gold Medal for Arts and Science (Germany). *Cheyne House, Chelsea Embankment, S.W.*
- 1898 Maxwell, Right Hon. Sir Herbert Eustace, Bart. LL.D. F.S.A. Pres. Soc. Scott. Antiq. 22-23 *Cumberland Mansions, W.; and Monreith, Whauphill, Wigtownshire, N.B.*
- 1886 Meldola, Raphael, Pres. C.S. F.I.C. F.R.A.S. F.E.S. Professor of 1896-98
Chemistry in the Finsbury Technical College, City and Guilds of London Institute. 6 *Brunswick Square, W.C.*
- 1904 Meyrick, Edward, B.A. (Camb.) F.Z.S. *Thornhanger, Marlborough, Wilts.*
- 1892 Miall, Louis Compton, Professor of Biology in the University of Leeds. 1 *Richmond Mount, Headingley, Leeds.*
- 1902 Michell, John Henry, M.A. Assistant Professor of Mathematics in the University of Melbourne. *The University, Melbourne.*
- 1896 Miers, Henry Alexander, D.Sc. M.A. (Oxon.) F.G.S. V.P.C.S. V.P. 1901-03
Min. Soc. Waynflete Professor of Mineralogy in the University of Oxford. *Magdalen College, Oxford.*
- 1874 Mills, Edmund James, Hon. LL.D. (Glasg.) D.Sc. (Lond.) F.C.S. F.I.C. Corr. Mem. Roy. Phil. Soc. Glasg. Emeritus Professor of Technical Chemistry in the Glasgow and West of Scotland Technical College, Glasgow. 64 *Twynford Avenue, West Acton, W.*
- 1887 Milne, John, F.G.S. Assoc. and Hon. Fellow of King's College, London. Late Professor of Mining and Geology in the Imperial College of Engineering, Japan. *Shide Hill House, Shide, Newport, Isle of Wight.*
- 1895 Minchin, George M., M.A. (Dubl.). Professor of Mathematics in the Royal Indian Engineering College, Cooper's Hill. *The College, Cooper's Hill, Staines.*
- 1906 Mitchell, Peter Chalmers, M.A. (Oxon. Aberd.) D.Sc. (Oxon.) F.L.S. F.Z.S. Hon. Mem. Roy. Zool. Soc. Ireland. Secretary of the Zoological Society of London. 3 *Hanover Square, W.*
- 1891 Mond, Ludwig, Ph.D. F.I.C. F.C.S. *The Poplars, 20 Avenue Road, Regent's Park, N.W.; Athenæum Club, S.W.; and Winnington Hall, Northwich.* 1900-01
- 1899 Morgan, Conwy Lloyd, LL.D. A.R.S.M. F.G.S. Principal and Professor of Psychology in University College, Bristol. Corr. Acad. Sci. New York and Philad. *Clayton House, Clifton Park, Bristol.*
- 1892 Morley, Right Hon. John, O.M. M.A. D.C.L. (Oxon.) Hon. LL.D. (Camb. and Glasg.) Trust. Brit. Mus. *Flowermead, Wimbledon Park; and Athenæum Club, S.W.*
- 1896 Mott, Frederick Walker, M.D. (Lond.) F.R.C.P. *Pathological Laboratory, Claybury Asylum, Essex; and 25 Nottingham Place, W.*
- 1880 Moulton, Right Hon. Sir John Fletcher, M.A. K.C. Lord Justice of Appeal. 57 *Onslow Square, S.W.*
- 1900 Muir, Thomas, C.M.G. M.A. LL.D. F.R.S.E. Superintendent-General

Date of
Election

Service on
Council, &c.

of Education in Cape Colony. *Department of Public Education, Cape Town, South Africa.*

- 1904 Muirhead, Alexander, D.Sc. (Lond.). *The Lodge, Shortlands, Kent.*
- 1866 Müller, Hugo, Ph.D. LL.D. (St. And.) V.P.C.S. Ord. SS^{rum} Lazar. et 1883-85
Maurit. Eq. 13 *Park Square East, N.W.; Crosby Hill, Cam-* 89-91
berley, Surrey; and Athenæum Club, S.W.
- 1897 Murray, George Robert Milne, F.L.S. F.R.S.E. Corr. Mem. New York
Acad. Sci., late Keeper of the Botanical Department, British
Museum. 8 *Kerrison Road, Ealing, W.; and Dial Cottage,*
Stonehaven, N.B.
- 1896 Murray, Sir John, K.C.B. Knt. Pruss. Ord. "*Pour le Mérite*";
LL.D. (Edin. and Toronto); Sc.D. (Camb.); Ph.D. (Jena);
F.L.S. F.R.G.S. F.R.S.E. P.R.S.G.S. P.S.N.H.S. F.R.P.S.E. F.S.
Micros. S. F.S. Met. S. F.S.A. Scot.; Hon. Memb. Geo. für Erdk.
Berlin, Ges. Naturf. Freunde Berlin, Schweiz. Naturf. Ges.,
Senckenburg Naturf. Ges., Nat. Geogr. Soc. Washington, Lit. and
Phil. Soc. Manch., Konink. Nederl. Aardrijkskundig. Genoots.
Amsterdam, Nederl. Dierkundige Vereenig., Imp. Soc. Students of
Nat. Hist. Anthropol. and Ethnogr. Moscow, Soc. Zool. France,
Geol. Soc. Edin., Nat. Hist. Soc. Glasgow, Geogr. Ges. Bern. Soc.,
Geogr. Ital. Rome; Corresp. Memb. Boston Soc. Nat. Hist., Russ.
Imp. Acad. Sci., Russ. Imp. Soc. Geogr., Zool. Soc. London; For.
Corresp. Memb. Soc. Géog. Paris; For. Hon. Memb. Amer.
Acad. Arts and Sciences; Assoc. Acad. Roy. Sci. Lettres et Beaux-
Arts, Belgique. Medal: Royal. *Challenger Lodge, Wardie,*
Edinburgh.
- 1875 Nares, Sir George Strong, K.C.B. Vice-Admiral. 7 *The Crescent, Surbiton.*
- 1897 Neville, Francis Henry, M.A. Fellow and Lecturer in Natural
Science, Sidney College, Cambridge. *Sidney College, Cambridge;*
and 15 Parkside, Cambridge.
- 1902 Newall, Hugh Frank, M.A. (Camb.) F.R.A.S. *Cambridge Observatory;* 1905-
and Madingley Rise, Cambridge.
- 1870 Newton, Alfred, M.A. F.L.S. F.Z.S. V.P. Marine Biol. Assoc. Pro- 1879-81
fessor of Zoology and Comparative Anatomy in the University of 89-91
Cambridge. Medal: Royal. *Magdalene College, Cambridge.* V.P.
- 1893 Newton, Edwin Tully, F.G.S. F.Z.S. Hon. Mem. Norfolk Nat. Soc. 1889-91
Florence House, Willow Bridge Road, Canonbury, N.
- 1880 Niven, Charles, M.A. D.Sc. Professor of Natural Philosophy in the
University, Aberdeen. 6 *Chanonry, Old Aberdeen.*
- 1882 Niven, Sir William Davidson, K.C.B. M.A. LL.D., late Director of 1892-94
Studies in Royal Naval College, Greenwich. *Eastburn, St. John's* 1904-06
Road, Sidcup, Kent. V.P.
1904-06
- 1870 Noble, Sir Andrew, Bart., Capt., K.C.B. D.C.L. (Dunelm.) F.R.A.S. 1884-85
F.C.S. Ord. Medjidie, Turkey, Grand Cordon, Ord. Coron. Ital. et 89-90
Ord. Jes. Christ Portug. Ord. Imp. Bras. Rosae, Gr. Off. Ord. 1898-1900
Thesau. Sacr. Japonia, Ord. Draco d. Sinen., Com. et. Ord. Car. III. V.P.
Hispan. Eq. Medal: Royal. *Jesmond Dene House, Newcastle-* 1899-00
upon-Tyne; and Athenæum Club, S.W.

Date of
ElectionService on
Council, &c.

- 1890 Norman, Rev. Alfred Merle, M.A. D.C.L. Hon. LL.D. (St. And.) F.L.S.
Hon. Canon of Durham. *The Red House, Berkhamsted, Herts.*
- 1900 North, Right Hon. Sir Ford, Kt. 76 *Queensborough Terrace, Hyde Park, W.; and Athenæum Club, S.W.*
- 1900 Northumberland, Henry George Percy, Duke of, K.G. F.S.A. President of the Royal Institution. 2 *Grosvenor Place, S.W.*
- 1904 Nuttall, George Henry Falkiner, M.A. (Camb.) M.D. (Cal.) Ph.D. (Gött.). University Lecturer in Bacteriology and Preventive Medicine, University of Cambridge. 3 *Cranmer Road, Cambridge.*
- 1859 Odling, William, M.A. (Oxon.) M.B. (Lond.) Coll. Reg. Med. Socius. 1864-66
V.P.C.S. Hon. Math. Phys. Doct. (Lugd. Bat.) Waynflete Professor of Chemistry in the University of Oxford. *Museum; and 79-81*
15 *Norham Gardens, Oxford.*
- 1863 Oliver, Daniel, LL.D. (Aberd.) F.L.S. Late Keeper of the Herbarium 1875-76
and Library, Royal Gardens, Kew; Emeritus Professor of Botany, 80-82
University College, London. **Medal: Royal.** 10 *Kew Gardens Road, Kew.*
- 1905 Oliver, Francis Wall, M.A. (Camb.) D.Sc. (Lond.) F.L.S. Professor of Botany in University College, London. 2 *The Vale, Chelsea, S.W.*
- 1898 Osler, William, M.D. F.R.C.P. Hon. D.Sc. (Oxon.). Regius Professor of Medicine in the University of Oxford. *University Museum, Oxford.*
- 1885* O'Sullivan, Cornelius, F.I.C. F.C.S. 148 *High Street, Burton-on-Trent.*
- 1882 Palgrave, Robert Harry Inglis, F.S.S. *Henstead Hall, Wrentham, Suffolk.*
- 1898 Parsons, The Hon. Charles Algernon, C.B. M.A. Sc.D. M. Inst. C.E. **Medal: Rumford.** *Holey Hall, Wylam-on-Tyne.*
- 1863 Pavy, Frederick William, M.D. (Lond.) LL.D. (Glasg.) Coll. Reg. Med. Socius. Consulting Physician and formerly Lecturer on Physiology and Comparative Anatomy and Zoology, and on Medicine, at Guy's Hospital. 35 *Grosvenor Street, W.*
- 1892 Peach, Benjamin Neeve, F.R.S.E. F.G.S. *Geological Survey Office, Sheriff Court Buildings, Edinburgh.*
- 1896 Pearson, Karl, M.A. LL.B. Professor of Applied Mathematics and Mechanics in University College, London. **Medal: Darwin.** 7 *Well Road, Hampstead, N.W.*
- 1892 Pedler, Sir Alexander, Kt., C.I.E. F.C.S. F.I.C. Fellow of the University of Calcutta; late Director of Public Instruction with the Government of Bengal. (After March 25) 28 *Stanhope Gardens, Queen's Gate, S.W.*
- 1903 Perkin, Arthur George, F.C.S. 8 *Montpelier Terrace, Hyde Park, Leeds.*
- 1866 Perkin, Sir William Henry, Kt., V.P.C.S. LL.D. (St. And.) Ph.D. 1879-81
Medals: Davy, Royal. *The Chestnuts, Sudbury, Harrow.* 92-94
V.P.
1893-94
- 1890 Perkin, William Henry, junior, Ph.D. F.I.C. F.C.S. Professor of 1904-05
Organic Chemistry in the Victoria University of Manchester. **Medal: Davy.** *Fairview, Wilbraham Road, Fallowfield, Manchester.*

* Deceased—January, 1907.

Fellows of the Royal Society.

29

Date of
Election

Service on
Council, &c.

- | | | |
|------|--|---------|
| 1885 | Perry, John, D.Sc. LL.D. Professor of Mechanics and Mathematics in the Royal College of Science, London. <i>Royal College of Science, South Kensington, S.W.</i> | 1904-06 |
| 1902 | Petrie, William Matthew Flinders, Hon. D.C.L. (Oxon.) Litt. D. (Camb.) LL.D. (Edin.) Professor of Egyptology, University College, London. 8 <i>Well Road, Hampstead, N.W.</i> | |
| 1868 | Pettigrew, James Bell, M.D. and F.R.C.P. (Edin.) LL.D. (Glasg.) Chandos. Professor of Medicine and Anatomy, and late Dean of the Medical Faculty in the University of St. Andrews; Laureate Inst. Fr. <i>The Swallowgate, St. Andrews, N.B.</i> | |
| 1887 | Pickard-Cambridge, Rev. Octavius, M.A. <i>Bloxworth, Wareham, Dorset.</i> | |
| 1890 | Pickering, Spencer Percival Umfreville, M.A. F.C.S. F.I.C. Mem. Phys. Soc. Lond. <i>Harpenden, Herts; Woolacombe, N. Devon; and 60 Palace Court, W.</i> | |
| 1902 | Plunkett, Right. Hon. Sir Horace Curzon, K.C.V.O. M.A. 104 <i>Mount Street, W.</i> | |
| 1902 | Pope, William Jackson, F.C.G.I. F.C.S. F.I.C. Professor of Chemistry in the Municipal School of Technology, Manchester. <i>Corchester, Bramhall, Cheshire.</i> | |
| 1889 | Poulton, Edward Bagnall, M.A. D.Sc. (Oxon.) Hon. LL.D. (Princeton) F.L.S. F.Z.S. F.G.S. Fellow of Jesus College, and Hope Professor of Zoology in the University of Oxford. Corresp. Mem. Acad. Sci. New York, and Soc. Nat. Hist. Boston. <i>Wykeham House, Banbury Road, Oxford; and St. Helen's Cottage, St. Helen's, Isle of Wight.</i> | 1897-99 |
| 1895 | Power, William Henry, C.B., Medical Officer to H.M. Local Government Board. <i>Glenbrook, Greenhithe; and Local Government Board, Whitehall, S.W.</i> | |
| 1888 | Poynting, John Henry, D.Sc. Professor of Physics in the University of Birmingham. Medal: Royal. 10 <i>Ampton Road, Edgbaston, Birmingham.</i> | 1894-96 |
| 1905 | Prain, David, Lieut.-Colonel I.M.S.; C.I.E. M.A. M.B. LL.D. F.R.S.E. F.L.S. Director, Royal Botanic Gardens, Kew; late Director, Botanical Survey of India, and Superintendent, Royal Botanic Gardens, Calcutta; Hon. Mem. Accad. d. Zelanti, Acireale; Corr. Memb. Pharm. Soc. Gt. Brit., Deutsch. Bot. Gesellsch. <i>Royal Botanic Gardens, Kew, Surrey.</i> | |
| 1881 | Preece, Sir William Henry, K.C.B. Fellow of King's College, London; Past. Pres. Inst. Electr. Eng.; Past Pres. Inst. C.E.; Hon. Mem. Inst. E.E. (America); Officier Lég. Hon. France. <i>Gothic Lodge, Wimbledon; Penrhos, Carnarvon; and Athenæum Club, S.W.</i> | 1887-89 |
| 1895 | Purdie, Thomas, B.Sc. Ph.D. Hon. LL.D. (Aberd.) A.R.S.M. Professor of Chemistry in the University of St. Andrews. <i>The University, St. Andrews.</i> | |
| 1886 | Pye-Smith, Philip Henry, M.D. B.A. F.R.C.P. Consulting Physician to Guy's Hospital; Fellow of the University of London. 48 <i>Brook Street, W.; and Athenæum Club.</i> | 1891-92 |
| 1900 | Rambaut, Arthur Alcock, M.A. (Dubl. et Oxon.) Sc.D. (Dubl.) F.R.A.S. Radcliffe Observer. <i>Radcliffe Observatory, Oxford.</i> | |

Date of
ElectionService on
Council, &c.

- 1888 Ramsay, Sir William, K.C.B. Ph.D. (Tüb.) Ph.D. (Cracow) LL.D. (Glasg.) 1896-97
Sc.D. (Dubl., Camb., Columbia) M.D. (Heidelb.) F.C.S. F.I.C.
Professor of Chemistry in University College, London; Officer of
the Legion of Honour of France; Corresp. Inst. Fr. (Acad. Sci.),
R. Istit. Veneto, For. Mem. Acad. der Wiss. Berlin, Soc. Holl. des
Sci., Acad. Imp. Bohemia, R. Accad. d. Sci. Turin, Genootschap v.
Phys. Rotterdam; Hon. Mem. Roy. Irish Acad. Amer. Phil. Soc.,
New York Acad. Sci., Lit. Phil. Soc., Manch., Pharmaceut. Soc.,
Soc. de Phys. et de Sci. Nat. Genève, K. Svenska Vetensk. Akad.,
Kong. Danske Videns. Selskab., Deutsch. Chem. Gesell. Berlin,
Physikal. Verein, Frankfurt-on-Main, Acad. Roy. Roumania,
Amer. Chem. Soc., Imper. Acad. Sci. St. Petersburg, Soc. Helv. des
Sciences, Soc. Med. Erlangen, Bunsen Gesellsch., Acad. Roy.
Hungary, Amer. Acad., Brooklyn Institute, Roy. Soc. (Edin.), Roy.
Med. Chirurg. Soc. **Medal: Davy.** 19 *Chester Terrace, Regent's
Park, N.W.*
- 1870 Ransom, William Henry, M.D. Coll. Reg. Med. Soc. Consulting
Physician to the General Hospital, Nottingham. *The Pavement,
Nottingham.*
- 1884 Ransome, Arthur, M.A. M.D. F.R.C.P. Late Professor of Public
Health in Owens College, and Examiner in Sanitary Science in
Cambridge and Victoria Universities. Hon. Fell. of Caius Coll.,
Cambridge. *Sunnyhurst, Dean Park, Bournemouth.*
- 1873 Rayleigh, Right Hon. John William Strutt, Lord, O.M.—President— 1877-79
M.A. D.C.L. (Oxon.) Sc.D. (Camb. and Dubl.) LL.D. (Edin. Glasg.) 84-96
Toronto, and Univ. McGill) Ph.D. (Heidel.) Hon. Fellow of Trinity 1905-
College, Cambridge; Officer of the Legion of Honour of France; **Sec.**
Hon. Mem. Inst. C.E. F.R.A.S.; Soc. Reg. Edin., Acad. Reg. Hib., 1885-96
Soc. Lit. et Phil. Manc., Acad. Reg. Sci. Monach., Soc. Asiat. Beng.,
Soc. Honor.; Inst. Fr. (Acad. Sci.) Par. Corresp.; Acad. Reg. Sci.
Hafn., Soc. Reg. Sci. Gött., Acad. Sci. Berol., Acad. Imp. Sci.
Petropol. Corr. Soc.; Scientific Adviser to the Trinity House;
Professor of Natural Philosophy in the Royal Institution.
Medals: Copley, Royal. *Terling Place, Witham, Essex.*
- 1899 Reid, Clement, F.G.S. F.L.S. Geological Museum, 28 *Jermyn
Street, S.W.*
- 1898 Reid, Edward Waymouth, B.A. M.B. (Camb.) Professor of Physiology
in University College, Dundee, St. Andrews University. *Uni-
versity College, Dundee.*
- 1883 Reinold, Arnold William, M.A. Professor of Physics in the Royal Naval 1899-01
College, Greenwich. 9 *Vanbrugh Park Road, Blackheath, S.E.*
- 1880 Reynolds, J. Emerson, M.D. Sc.D. (Dubl.) V.P. and Past. Pres. C.S. 1900-2
F.I.C. Past Pres. Soc. Chem. Ind. Late Professor of Chemistry, **V.P.**
University of Dublin. 29 *Campden Hill Court, Kensington, W.* 1901-2
- 1877 Reynolds, Osborne, M.A. (Cantab.) LL.D. (Glasg.), Mem. Inst. C.E. 1882-84
Hon. Fellow Queen's Coll. Camb.; late Professor of Engineering
in Victoria University, Manchester. **Medal: Royal.** 19 *Lady
Barn Road, Fallowfield, Manchester.*

Date of
Election

Service on
Council, &c.

- 1885 Ringer, Sydney, M.D. (Lond.) 15 *Cavendish Place*, W.
- 1860 Ripon, George Frederick Samuel Robinson, Marquis of, K.G. G.C.S.I.
C.I.E. D.C.L. (Oxon.) F.L.S. F.R.G.S. 9 *Chelsea Embankment*,
S.W.; and *Studley Royal, Ripon, Yorkshire*.
- 1878 Roberts, Samuel, M.A. (Lond.) 27 *Nassington Road, Hampstead*, N.W.
- 1899 Romer, Right Hon. Sir Robert, G.C.B. M.A. *Great Hormead Bury*,
Buntingford, Herts; and *Athenæum Club*, S.W.
- 1863 Roscoe, Sir Henry Enfield, Kt., B.A. D.C.L. (Oxon.) LL.D. (Cantab. 1872-73
Dubl. Glasg. Montr.) Hon. M.D. (Heidelb.) Hon. D.Sc. 81-83;
(Vict.) Ph.D. V.P.C.S. Officier Lég. Hon. France; Corresp. Inst. 88-90
Fr. (Acad. Sci.); Fellow of Univ. of Lond., Fellow of Univ. Coll.,
and Eton College; Emeritus Professor of Chemistry in Victoria
University (Owens College); Hon. Mem. Literary and Phil. Soc.
Manchester; Hon. Mem. New York Acad. Sci., Chem. Gesell.
Berlin, Verein für Naturwiss. Brunswick, and Physikal. Verein.
Frankfort-on-Main; Corresp. K. Bayer. Akad. Wiss. Munich, K.
Gesell. Wiss. Göttingen, and Acad. Gioenia Sci. Nat. Catania;
Mem. Amer. Phil. Soc. Philadelphia, K. Leop.-Carol. Akad.
Halle, and Physiogr. Sällsk. Lund. Medal: Royal. 10 *Bramham*
Gardens, South Kensington, S.W.; and *Athenæum Club*.
- 1886 Rosebery, Right Hon. Archibald Philip Primrose, Earl of, K.G. K.T.
D.C.L. Trust. Brit. Mus. 38 *Berkeley Square*, W.; and *Dalmeny*
Park, Linlithgowshire.
- 1901 Ross, Ronald, Major, I.M.S. (retired), C.B.; Hon. F.R.C.S. Eng.,
D.P.H., R.C.P.S. London; Hon. D.Sc. Trin. Coll. Dublin;
Corresp. Étranger, Acc. de Med. Paris; Nobel Medical Prize,
1902; Hon. Mem. Medical Societies of Stockholm, Ghent,
Batavia, Manila; of Tropical Medical Societies of Paris and
America; and of Royal Physiographical Society of Lund. Pro-
fessor of Tropical Medicine and Parasitology in the University of
Liverpool. *University College, Liverpool*.
- 1867 Rosse, Laurence Parsons, Earl of, K.P. B.A. D.C.L. (Oxon.) LL.D. 1871-72
(Camb. and Dubl.) F.R.A.S. Chancellor of the University of 87-88;
Dublin. *Birr Castle, Parsonstown, Ireland*. V.P. 1871-72
87-88
- 1872 Routh, Edward John, Sc.D. (Cantab. et Dubl.) LL.D. (Glasg.) M.A. 1888-90
(Lond.) Fellow of the University of London; Hon. Fellow St.
Peter's College, Cambridge; F.R.A.S. F.G.S. *Newnham Cottage*,
Queen's Road, Cambridge.
- 1884 Rücker, Sir Arthur William, Kt., M.A. (Oxon.) D.Sc. (Oxon. Cantab. 1887-89
Vict.) LL.D. (Glasg. Edin.), Hon. Fellow of Brasenose Coll., 1894-1901
Oxford; Principal and Fellow of the University of London;
Corr. Mem. Leeds Lit. and Phil. Soc.; Hon. Mem. Royal Cornwall
Polytechnic Society. Medal: Royal. 19 *Gledhow Gardens*,
South Kensington, S.W.; and *Athenæum Club*, S.W.
- 1886 Russell, Henry Chamberlaine, C.M.G. B.A. (Sydn.) F.R.A.S. F.R.
Met. Soc. Government Astronomer of New South Wales. *The*
Observatory, Sydney, N.S. Wales

Date of
ElectionService on
Council, &c.

- 1872 Russell, William James, Ph.D. V.P.C.S., late Lecturer on Chemistry at the Medical School of St. Bartholomew's Hospital. 34 *Upper Hamilton Terrace, N.W.* 1885-8
97-99
V.P.
1897-99
- 1903 Rutherford, Ernest, M.A. D.Sc. Professor of Experimental Physics, McGill University, Montreal. **Medal: Rumford.** *McGill University, Montreal, Canada.*
- 1903 Sampson, Ralph Allen, M.A. (Camb.) D.C.L. Professor of Mathematics, University of Durham. *Observatory House, Durham.*
- 1902 Saunders, Edward, F.L.S. F.E.S. *St. Ann's, Mount Hermon, Woking.*
- 1878 Schäfer, Edward Albert, M.R.C.S. LL.D. (Aberd.) Hon. Sc.D. (Trin. Coll. Dubl.) Professor of Physiology in the University of Edinburgh. Hon. Mem. Roy. Phil. Soc. Glasgow. **Medal: Royal.** *North Berwick.* 1890-92
1902-03
- 1901 Schlich, William, C.I.E. M.A. (Oxon.) Ph.D. F.L.S. Professor of Forestry, University of Oxford. Late Inspector-General of Forests to the Government of India; Honorary Professor of Forestry, Royal Agricultural College, Cirencester. 29 *Banbury Road, Oxford.*
- 1879 Schuster, Arthur, Sc.D. (Camb.) Ph.D. F.R.A.S. Mem. Inst. Elect. Eng., Roy. Phil. Soc. Glasg., Hon. Mem. Phil. Soc. Camb., Corr. Mem. Roy. Soc. Sci. Gött., Professor of Physics in the Victoria University of Manchester. **Medal: Royal.** *Kent House, Victoria Park, Manchester.* 1885-87
98-99
- 1861 Slater, Philip Lutley, M.A. D.Sc. (Oxon.) Ph.D. (Bonn) Hon. Fellow of Corpus Christi College, F.L.S. F.G.S. F.R.G.S., late Secretary of the Zoological Society of London. 3 *Hanover Square, W.; and Odiham Priory, Winchfield, Hants.* 1872-73
86-87
- 1898 Scott, Alexander, M.A. (Camb.) D.Sc. (Edin.) F.R.S.E. F.C.S. *Davy-Faraday Laboratory, Albemarle Street, W.* 1906-
- 1894 Scott, Dukinfield Henry, M.A. (Oxon.) LL.D. (Aberd.) Ph.D. (Würzb.) F.L.S. F.G.S. F.R.M.S. Lately Honorary Keeper of the Jodrell Laboratory, Royal Botanic Gardens, Kew. **Medal: Royal.** *East Oakley House, Oakley, Hants.* 1897-99
- 1870 Scott, Robert Henry, M.A. D.Sc. (Dubl.) F.Z.S. F.R. Met. Soc., late Secretary to the Meteorological Council. Officer of the Legion of Honour; Ord. Coron. Ferr. Austr. Eq.; Acad. Cæs. Leop. Soc.; Soc. Met. Fr. Par., Soc. Imp. Reg. Zool. Bot., Soc. Met. Austr. Vindob., Soc. Met. Germ. Berol. et Soc. Nat. Scrutat. Emb. Soc. Honor.; Inst. Geol. Imp. Vindob. Soc. Met. Ital. Taurin. et Soc. Isis Dresd. Mem. Corr. 6 *Elm Park Gardens, S.W.* 1900-2
- 1905 Searle, George Frederick Charles, M.A. (Camb.) University Lecturer in Experimental Physics, and Demonstrator of Experimental Physics at the Cavendish Laboratory, Cambridge. *Wyncote, Hills Road, Cambridge.*
- 1886 Sedgwick, Adam, M.A. Fellow, Tutor, and Lecturer of Trin. Coll., Cambridge, and Reader of Animal Morphology in the University. 4 *Cranmer Road, Cambridge.* 1892-94
1908-05

Date of
Election

Service on
Council, &c.

- 1879 Seeley, Harry Govier, F.L.S. F.G.S. F.Z.S. F.R.G.S. Professor of Geology and Geography with Mineralogy in King's College, London; Lecturer on Geology and Mineralogy in the Royal Indian Engineering College, Cooper's Hill; Inst. Imp. Reg. Geol. Vindob. Nat. Philad. Corresp.; Soc. Phil. Ebor., Soc. Imp. Sci. Nat. Hist. Mosq. Soc., Senckenberg. Natur. Gesell. Franf. Corresp. Hon. Mem. S. African Phil. Soc.; Mem. Corr. Acad. Imp. Sci. St. Petersburg. 3 *Holland Park Court, Holland Park Gardens, W.*; and *Athenæum Club, W.*
- 1900 Sell, William James, M.A. Senior Demonstrator of Chemistry in the University of Cambridge. 11 *Downing Grove, Cambridge.*
- 1898 Seward, Albert Charles, M.A. (Camb.) F.G.S. F.L.S. Fellow of Emmanuel College; late Fellow of St. John's College; Professor of Botany in the University of Cambridge. *Westfield, Huntingdon Road, Cambridge.* 1906-
- 1890 Sharp, David, M.B. C.M. (Edin.) Hon. M.A. (Camb.) F.L.S. F.Z.S. Hon. Mem. New Zealand Inst. *Museum of Zoology, Cambridge*; and *Lawnside, Brockenhurst, Hants.*
- 1891 Shaw, William Napier, M.A. Sc.D. Hon. LL.D. (Aberd.) Hon. Mem. Roy. Cornwall Polytechnic Soc., Meteorol. Soc. Mauritius, K.K. Oesterr. Gesell. für Meteorol. Vienna. Fellow of Emmanuel College, Cambridge; Director of the Meteorological Office. *Meteorological Office, 63 Victoria Street*; and 10 *Moreton Gardens, South Kensington, S.W.* 1903-05
- 1898 Shenstone, William Ashwell, F.I.C. *Clifton College, Bristol*; and 46 *College Road, Clifton, Bristol.*
- 1893 Sherrington, Charles Scott, M.A. M.D. (Camb.) Sc.D. (Camb.) Hon. LL.D. (Toronto and Harvard); Holt Professor of Physiology in the University of Liverpool; Honorary Fellow of Gonville and Caius College, Cambridge; Mem. Corr. Honor. Soc. Neurol. Paris; Mem. Corr. K. Med. Gesell. Vienna; Corr. Mem. Gessel. f. Inn. Med. Vienna; For. Mem. Real. Acad. dei Lincei, Rome, K. Gesell. Wissen. Gött.; Hon. Mem. Amer. Physiological Society; Corresp. Mem. Société de Biologie, Paris; Silliman Memorial Lecturer, Yale University. **Medal: Royal.** 16 *Grove Park, Liverpool.* 1900-02
- 1904 Shipley, Arthur Everett, M.A. F.Z.S. University Lecturer in the Advanced Morphology of Invertebrates, University of Cambridge. *Christ's College, Cambridge.*
- 1901 Smithells, Arthur, B.Sc. (Lond.) F.I.C. Professor of Chemistry in the University of Leeds. 2 *St. Chad's Villas, Far Headingley, Leeds.*
- 1889 Sollas, William Johnson, Sc.D. (Camb.) LL.D. (Dubl.) F.R.S.E. F.G.S. Professor of Geology in the University of Oxford; Fellow of University College, Oxford. 173 *Woodstock Road, Oxford.* 1906-
- 1857 Sorby, Henry Clifton, LL.D. (Cantab.) F.L.S. F.G.S. F.Z.S. F.S.A. F.R.M.S., Soc. Min. Petrop., Soc. Holland. Harl. Socius.; Acad. Lync. Romæ. Adsoc. Extr.; Amer. Acad. Arts et Sci. Soc. Honor.; Acad. Sci. Nat. Philad. et Acad. Sci. Nov. Ebor. Corr. Mem. **Medal: Royal.** *Broomfield, Sheffield.* 1876-77

Date of
ElectionService on
Council, &c.

- 1900 Spencer, W. Baldwin, C.M.G. B.A. (Oxon.) M.A. (Melb.). Professor of Biology in the University of Melbourne; Fellow of Lincoln College, Oxford; Corr. Mem. Z.S. *The University, Melbourne, Victoria.*
- 1899 Starling, Ernest Henry, M.D. F.R.C.P. Jodrell Professor of Physiology in University College, London. 40 *West End Lane, Hampstead, N.W.* 1905-
- 1903 Stead, John Edward, F.C.S. 11 *Queen's Terrace, Middlesbrough.*
- 1896 Stebbing, Rev. Thomas Roscoe Rede, M.A. (Oxon.) B.A. (Lond.) F.L.S. F.Z.S., Fellow of King's Coll., London. *Ephraim Lodge, The Common, Tunbridge Wells.*
- 1896 Stewart, Charles, LL.D. (Aberd.) M.B.C.S. F.L.S. Conservator of the Museum of the Royal College of Surgeons, and Hunterian Professor of Human and Comparative Anatomy. 38 *Lincoln's Inn Fields, W.C.*
- 1893 Stirling, Edward Charles, C.M.G. M.A. M.D. (Camb.) F.R.C.S. C.M.Z.S. Late Surgeon, Adelaide Hospital; Professor of Physiology in the University of Adelaide; Director of the South Australian Museum. *The University, Adelaide, South Australia.*
- 1902 Stirling, Right Hon. Sir James, Kt., M.A. (Camb.), Lord Justice of Appeal. 3 *Hans Crescent, S.W.*; and *Finchcocks, Goudhurst.*
- 1881 Stoney, Bindon Blood, LL.D. M.Inst.C.E. M.R.I.A. M.I.N.A. 14 *Elgin Road, Dublin.*
- 1861 Stoney, George Johnstone, M.A. Sc.D. (Dubl.) D.Sc. (the late Queen's University) F.R.A.S., Hon. Mem. Amer. Phil. Soc., New York V.P. Acad. Sci., Corresp. Mem. Acad. Sci. di Lettere ed Arti, Benevento. 1898-1900 1899-1900
30 *Ladbury Road, Notting Hill, W.*
- 1854 Strachey, Sir Richard, Lieut.-General, R.E. G.C.S.I. LL.D. (Cantab.) 1872-74 F.G.S. F.L.S. Hon. Mem. Asiat. Soc. Bengal. Medal: Royal. 80-81 84-86 90-91
69 *Lancaster Gate, Hyde Park, W.* V.P. 1880-81 85-86
- 1903 Strahan, Aubrey, M.A. (Camb.), F.G.S. 12 *Marloes Road, Kensington, W.*
- 1904 Strathcona, Donald Alexander Smith, Baron, G.C.M.G. High Commissioner for Canada. 28 *Grosvenor Square, W.*
- 1905 Strutt, Hon. Robert John, M.A. (Camb.). Fellow of Trinity College, Cambridge. *Sunnyside, Cambridge.*
- 1888 Sudeley, Charles Douglas Richard Hanbury-Tracy, Lord. *Ormeley Lodge, Ham Common, Surrey.*
- 1894 Swan, Sir Joseph Wilson, D.Sc. M.A. (Durh.) F.C.S. F.I.C. Past President Inst. Elect. Eng. Vice-Pres. Senate Univ. Coll. Lond.; Vice-Pres. Lit. and Phil. Soc. Newcastle; Cor. Mem. Phil. Soc. Glasgow; Chev. de la Légion d'Honneur. Medal: Hughes. 58 *Holland Park, W.* 1900-02
- 1906 Swinburne, James, M.Inst.C.E. Past Pres. Inst. Elect Eng. 41 *Palace Court, W.*
- 1903 Symington, Johnson, M.D. F.Z.S. F.R.S.E. Professor of Anatomy, Queen's College, Belfast. *Queen's College, Belfast.*

Fellows of the Royal Society.

35

Date of
Election

Service on
Council, &c.

- 1899 Tanner, Henry William Lloyd, D.Sc. (Oxon.) F.R.A.S. A.R.S.M.
Professor of Mathematics and Astronomy in the University
College of South Wales and Monmouthshire. *University College,
Cardiff.*
- 1898 Taylor, Henry Martyn. Fellow of Trinity College, Cambridge. *The
Yews, Queen's Road, Cambridge.*
- 1888 Teale, Thomas Pridgin, M.A. F.R.C.S. *North Grange, Headingley, Leeds.*
- 1890 Teall, J. J. H., M.A. F.G.S. Director of the Geological Survey of 1899-1901
Great Britain, and of the Museum of Practical Geology, London. V.P.
Geological Museum, 28 Jermyn Street; and Athenæum Club, S.W. 1900-01
- 1869 Tennant, James Francis, Lieut.-General, R.E. C.I.E. F.R.A.S.
11 *Clifton Gardens, Maida Hill, W.*
- 1880 Thiselton-Dyer, Sir William Turner, K.C.M.G. C.I.E. M.A. (Oxon.) Sc.D. 1886-88
(Camb.) B.Sc. (Lond.) Ph.D. LL.D. (Glasg.) F.L.S. Lately Director 96-97
Royal Botanic Gardens, Kew; lately Botanical Adviser to H.M. V.P.
Secretary of State for the Colonies; Hon. Student of Christ Church, 1896-97
Oxford; late Fellow Univ. of London; Hon. Fellow, King's Coll.,
Lond., Bot. Soc. Edin.; Hon. Mem. Roy. Bot. Soc. Lond., Pharm.
Soc. Gt. Britain, Camb. Phil. Soc., Lit. Phil. Soc. Manchester, Soc.
Néerland. d'Hort. et de Bot., New Zealand Institute, Roy. Soc.
N.S.W., Dominico Agric. Soc.; Corresp. Acad. Sci. Philad.,
Boston Soc. Nat. Hist., Hort. Soc. Berlin and Massachusetts,
Soc. Nat. Sci. et Math. de Cherb., Corresp. Accad. Sci. Lett. ed
Arti d. Zelanti, Acireale, and Botan. Soc. Copenhagen; Mem.
Assoc. Soc. Roy. de Bot. de Belgique, American Phil. Soc.; Mitg.
Kais.-Leop.-Carol. Deutsch. Acad. der Naturf. in Halle. *The
Ferns, Witcombe, Gloucester.*
- 1901 Thomas, M. R. Oldfield, F.Z.S. F.R.G.S. Senior Assistant in the
Zoological Department of the British Museum. 15 *St. Petersburg
Place, Bayswater, W.*
- 1891 Thompson, Silvanus Phillips, B.A. D.Sc. (Lond.). M.D. (Königsberg), 1906-
F.R.A.S. Reg. Acad. Sci. Suec. Soc., Phys. Verein, Francof. ad
Mœnum. Soc. Honor. Soc. Phil. Ebor. Soc. Honor., Amer. Acad.
Sci., Past Pres. Phys. Soc. and Inst. Elec. Eng. Lond., Principal and
Professor of Physics in the City and Guilds of London Technical Col-
lege, Finsbury. *Morland, Chislett Road, West Hampstead, N.W.*
- 1897 Thomson, John Millar, LL.D. (Glasg.) F.C.S. Professor of Chemistry
in King's College, London. 9 *Camden Hill Gardens, W.*
- 1884 Thomson, Joseph John, M.A. Sc.D. (Dubl.) D.Sc. (Vict.) LL.D. (Glasg. 1889-91
Princeton) Hon. Mem. Lit. Phil. Soc. Manc., Roy. Dubl. Soc., R. 1898-1900
Accad. Sci. Turin, K. Vetensk.-Soc. Upsala; Fellow of Trinity
College and Cavendish Professor of Experimental Physics, Cam-
bridge. **Medals: Royal, Hughes.** *Trinity College, Cambridge.*
- 1893 Thornycroft, Sir John Isaac, Kt., M. Inst. C.E. *Eyot Villa, Chiswick
Mall, Chiswick.*
- 1876 Thorpe, Thomas Edward, C.B. D.Sc. (Vict. Leeds) Sc.D. (Dubl.) Ph.D. 1890-91
(Heid.) LL.D. (Glasg.) V.P.C.S. Principal of the Government 93-95
Laboratories; Fellow of the University of London; Hon. Fellow 99-03

Date of
ElectionService on
Council, &c.

- Roy. Soc. Edin.; Past Pres. Soc. Chem. Indust., Past Pres. Chem. Soc.; Soc. Chem. Berol. Socius; Soc. Phil. Glasg. Mem. Corr.; Soc. Phil. Leeds, Soc. Lit. Phil. Manc., Soc. Pharm., Soc. Pub. Anal. Soc. Honor.; Soc. Bat. Sci. Harl. Soc. Extr. Medal: **Royal Government Laboratories, Clement's Inn Passage, Strand, W.C.; and Athenæum Club, S.W.**
- 1899 Threlfall, Richard, M.A. 30 George Road, Edgbaston, Birmingham.
- 1880 Tilden, William Augustus, D.Sc. (Lond.) Sc.D. (Dubl.) F.C.S. F.I.C. Professor of Chemistry in the Royal College of Science, London; Hon. Mem. Pharm. Soc., Soc. Pub. Anal., Soc. Nat. Bristol, Phil. Soc. Birmingham. Coll. Pharm. Philad. *The Oaks, Northwood, Middlesex.*
- 1891 Tizard, Thomas Henry, Captain R.N. C.B. F.R.G.S. Assistant Hydrographer of the Admiralty. *Hydrographic Department, Admiralty, Whitehall, S.W.*
- 1889 Todd, Sir Charles, Kt., M.A. (Camb.) K.C.M.G. F.R.A.S. Formerly Postmaster-General, Superintendent of Telegraphs and Government Astronomer South Australia. *The Observatory, Adelaide, South Australia.*
- 1878 Tones, Charles Sissmore. M.A. (Oxon.). 9 Park Crescent, Portland Place, W.
- 1889 Tomlinson, Herbert, B.A. (Oxon.). Gilling, Upper Station Road, *Bezhill-on-Sea.*
- 1903 Townsend, John S., M.A. (Dubl.). Wykeham Professor of Physics, Oxford. *New College, Oxford.*
- 1893 Trail, James William Helenus, A.M. M.D. C.M. (Aberd.) F.J.S. Regius Professor of Botany in the University of Aberdeen. *The University, Aberdeen, N.B.*
- 1881 Traquair, Ramsay H., M.D. LL.D. F.R.S.E. F.G.S. Keeper of the Natural History Collections in the Museum of Science and Art. Edinburgh. *The Bush, Colinton, Midlothian.*
- 1904 Travers, Morris William, D.Sc. (Lond.). Principal of the Tata Institute, Bangalore. *Bangalore, India.*
- 1883 Trimen, Roland, Hon. M.A. (Oxon.) F.L.S. F.Z.S. F.E.S. Hon. Mem. South African Phil. Soc. and Soc. Imp. Amis. Sci. Nat. de Mosc.; late Curator of the South African Museum. 26 Onslow Road, *Richmond Hill, Surrey.*
- 1897 Trouton, Frederick Thomas, M.A. Sc.D. (Dubl.) Quain Professor of Physics in University College, London. 2 Holland Park, W.; and *University College, W.C.*
- 1897 Turner, Herbert Hall, D.Sc. F.R.A.S. Savilian Professor of Astronomy in the University of Oxford. Past Pres. R.A.S., late Fellow Trinity Coll. Camb.; Fellow New Coll. Oxford; Corr. Mem. Soc. Spettros. Ital. *University Observatory, Oxford.*
- 1877 Turner, Sir William, K.C.B. M.B. (Lond.) D.C.L. (Durh. Toronto and Oxf.) LL.D. (Glasg. and Univ. McGill) Sc.D. (Camb. and Dubl.) F.R.C.S. (Edin.) F.R.S.E.; Hon. Assoc. Ord. Hosp. St. John, Jerusalem; late Professor of Anatomy in the University of Edinburgh; Hon. Prof. Anat. Roy. Soc. Acad.; Hon.

V.P.

1894-95

For. Sec.

1899-03

1892-94

1904-06

V.P.

1904-06

1902-04

1901-03

1890-91

Date of
Election

Service on
Council, &c.

- Mem. Roy. Irish Acad.; Hon. Fell. Roy. Med. Chir. Soc. London; Hon. Fell. Obst. Soc. Lond. and Edin.; For. Assoc. Anthrop. Soc. Paris; Corr. Mem. Akad. Wiss. Berlin, Soc. Anthrop. Ethnol. and Prehist. Arch. Berlin. Corr. Mem. Soc. Anthrop. Rome; Hon. Mem. Imp. Milit. Acad. Med. St. Petersburg. 6 *Eton Terrace, Edinburgh; and Athenæum Club, S.W.*
- 1899 Tutton, Alfred Edwin Howard, M.A. (Oxon.) D.Sc. (Oxon.) F.C.S. A.R.C.S. 41 *Ladbroke Square, W.*
- 1871 Tylor, Edward Burnett, D.C.L. (Oxon.) LL.D. (St. And. Aberd. and 1899-1900 McGill) Assoc. Acad. Reg. Belg. Professor of Anthropology in the University of Oxford. *Museum House, Oxford.*
- 1886 Unwin, W. Cawthorne, B.Sc. LL.D. (Edin.) Mem. Inst. C.E.; Hon. 1893-94 Mem. Inst. M.E.; Mem. Amer. Phil. Soc.; Hon. Mem. Amer. Soc. Mech. Eng.; Emeritus Professor of Engineering at the Central Technical College of the City and Guilds of London Institute. *Palace Gate Mansions, 29 Palace Gate, Kensington, W.*
- 1894 Veley, Victor Herbert, M.A. D.Sc. 20 *Bradmore Road, Oxford.*
- 1883 Venn, John, Sc.D., Fellow of Caius College, Cambridge. *Vicarsbrook, Chaucer Road, Cambridge.*
- 1885 Vines, Sydney Howard, M.A. (Oxon.) D.Sc. (Camb. and Lond.) F.L.S. 1890-92 Sherardian Professor of Botany in the University of Oxford; Fellow of Magdalen College, Oxford; Hon. Fellow of Christ's College, Cambridge; Hon. Mem. Manc. Lit. Phil. Soc. and Roy. Phys. Soc. Edin.; Corr. Mem. Soc. Nat. Sci. et Math. de Cherb., Soc. Roy. Bot. de Belg., and Soc. Nat. Hist. Bost. *Headington Hill, Oxford.*
- 1904 Wager, Harold W. T., F.L.S. H.M. Inspector of Schools, Secondary Branch, Board of Education. *Hendre, Horsforth Lane, Far Headingley, Leeds.*
- 1904 Walker, Gilbert Thomas, M.A. F.R.A.S. Meteorological Reporter to the Indian Government; late Lecturer and Fellow of Trinity College, Cambridge. *Simla, India.*
- 1900 Walker, James, D.Sc. (Edin.) Ph.D. (Leipz.) Professor of Chemistry in University College, Dundee. 8 *Windsor Terrace, Dundee.*
- 1893 Wallace, Alfred Russel, LL.D. D.C.L. F.L.S. F.Z.S. Medals: Royal, Darwin. *Broadstone, Wimborne, Dorset.*
- 1892 Waller, Augustus Désiré, M.D. (Aberd.) Hon. LL.D. (Edin.) Director 1906- of the Physiological Laboratory, University of London. *Weston Lodge, 32 Grove End Road, N.W.*
- 1887 Walsingham, Thomas de Grey, Lord, M.A. LL.D. High Steward of 1896-87 the University of Cambridge; Trust. Brit. Mus.; F.L.S. F.Z.S. F.E.S.; Mem. Soc. Ent. de France, Ent. Ver. zu Berlin, Netherlands Ent. Ver., Soc. Ent. de Russie, Linn. Soc. N.S.W. *Merton Hall, Thetford, Norfolk.*
- 1886 Warington, Robert, M.A. (Oxon.) F.C.S. late Sibthorpean Professor of Rural Economy in the University of Oxford. *High Bank, Harpenden, Herts.*

Date of
ElectionService on
Council, &c.

- 1884 Warren, Sir Charles, Lieut.-General, R.E. G.C.M.G. K.C.B. 10 *Wellington Crescent, Ramsgate; and Athenæum Club, S.W.*
- 1901 Watson, William, D.Sc. A.R.C.S. (Lond.) Assistant Professor of Physics in the Royal College of Science London. 7 *Upper Cheyne Row, Chelsea, S.W.*
- 1900 Watts, Sir Philip, K.C.B. Director of Naval Construction. 10 *Chelsea Embankment, S.W.*
- 1904 Watts, William Whitehead, M.A. (Camb.) M.Sc. (Birm.) Sec. G.S. Professor of Geology in the Royal College of Science. Late Fellow of Sidney Sussex College, Cambridge; Hon. Mem. Geol. Soc., Liverpool. *Royal College of Science, South Kensington, S.W.; and Hillside, Langley Park, Sutton, Surrey.*
- 1901 Whetham, William Cecil Dampier, M.A. Lecturer in Physics and Fellow of Trinity College, Cambridge. *Upwater Lodge, Cambridge.*
- 1887 Whitaker, William, B.A. (Lond.) F.G.S. Assoc. Inst. C.E. F.R. San. Inst.; Corr. Acad. Nat. Sci. Philad.; Hon. Mem. Geol. Assoc. Lond., Phil. Soc. York, Geol. Soc. Liverpool, Soc. Belg. de Géol. 3 *Camden Road, Croydon.*
- 1888 White, Sir William Henry, K.C.B. LL.D. (Glasg.) Sc.D. (Camb.) 1894-95 F.R.S.E. Mem. Inst. C.E. Fellow Royal School of Naval Architecture; V.P. Inst. Naval Architects; Past. Pres. Inst. Mech. Eng.; For. Mem. Roy. Acad. Sci. Sweden; late Assistant Controller and Director of Naval Construction. *Cedarcroft, Putney Heath, S.W.; and Athenæum Club, S.W.*
- 1903 Whitehead, Alfred North, Fellow and Lecturer in Mathematics, Trinity College, Cambridge. *The Mill House, Grantchester, Cambridge.*
- 1905 Whittaker, Edmund Taylor, M.A. (Camb.) Royal Astronomer of Ireland and Andrews Professor in the University of Dublin. *Observatory, Dunsink, co. Dublin, Ireland.*
- 1886 Wilde, Henry, D.Sc. D.C.L. (Oxon.) Past. Pres. Lit. Phil. Soc. Manch., Hon. Mem. Inst. Electr. Eng. *The Hurst, Alderley Edge, Cheshire.*
- 1870 Wilks, Sir Samuel, Bart. M.D. LL.D. F.R.C.P. late Pres. Roy. Coll. 1899-1900 Phys. Consulting Physician to Guy's Hospital. 8 *Prince Arthur Road, Hampstead, N.W.*
- 1902 Willey, Arthur, D.Sc. *The Museum, Colombo, Ceylon.*
- 1862 Williams, C. Greville, F.C.S. *Bay Cottage, Smallfields, near Horley, Surrey.*
- 1879 Williamson, Benjamin, D.Sc. D.C.L. (Oxon.) M.R.I.A. Senior Fellow of Trinity College, Dublin. *Trinity College, Dublin.*
- 1900 Wilson, Charles Thomson Rees, M.A. (Camb.) B.Sc. (Vict.) *Sidney Sussex College, Cambridge.*
- 1906 Wilson, Harold A., M.A. (Camb.) D.Sc. (Lond.) M.Sc. (Vict.) Fellow of Trinity College, Cambridge; Professor of Physics in King's College, London. 3 and 4, *Clement's Inn, W.C.*
- 1896 Wilson, William E., D.Sc. (Dubl.) M.R.I.A. F.R.A.S. *Daramona, Streete, Westmeath, Ireland.*
- 1899 Windle, Bertram Coghill Alan, M.A. M.D. Sc.D. (Dubl.) M.Sc. (Birm.) F.S.A. F.R.Soc. Antiq. Ireland; President of Queen's College, Cork. *President's House, Queen's College, Cork.*

Date of Election	Service on Council, &c
1895 Wolfe Barry, Sir John, K.C.B. LL.D. Past. Pres. Inst. C.E. 23 <i>Delahay Street, Westminster, S.W.</i>	1902-08
1901 Woodward, Arthur Smith, LL.D. F.L.S. F.G.S. F.Z.S. F.R.G.S. Keeper of the Department of Geology, British Museum (Natural History). 4 <i>Scarsdale Villas, Kensington, W.</i>	
1873 Woodward, Henry, LL.D. (St. And.) F.G.S. V.P.Z.S. F.R.M.S. Pres. Palæont. Soc. V.P. Malacol. Soc. Lond. Acad. Sci. Nov. Ebor. Soc. Phil. Amer. Philad. Soc.; Soc. Phil. Ebor., Assoc. Geol. Lond., Soc. Geol. Edin., Glasc., Liverp. et Nordov. Soc. Honor.; Soc. Géol. Belg., Imp. Nat. Hist. Mosq., Hist. Nat. Montreal et Malacol. Belg. Corresp.; late Keeper of the Department of Geology, British Museum (Natural History). 129 <i>Beaufort Street, Chelsea, S.W.</i>	
1896 Woodward, Horace Bolingbroke, F.G.S. Assistant Director of the Geological Survey. Hon. Mem. Norfolk Nat. Soc. and Yorksh. Phil. Soc. 89 <i>Marlborough Mansions, Cannon Hill, N.W.</i> ; and <i>Geological Survey, 28 Jermyn Street, S.W.</i>	
1893 Worthington, Arthur Mason, C.B. M.A. F.R.A.S. Headmaster and Professor of Physics, Royal Naval Engineering College, Devonport. <i>Mohuns, Tavistock.</i>	
1906 Wright, Sir Almroth Edward, M.D. (Dubl.) Hon. D.Sc. (Dubl.) Hon. F.R.C.S. (Ireland). Director of the Department for Therapeutic Inoculation, St. Mary's Hospital, London; formerly Professor of Pathology, Army Medical School, Netley. 7 <i>Lower Seymour Street, W</i> ; and <i>St. Mary's Hospital, W.</i>	
1896 Wynne, William Palmer, D.Sc. (Lond.) V.P.C.S. F.I.C. A.R.C.S. Firth Professor of Chemistry in the University of Sheffield; formerly Professor of Chemistry in the Pharmaceutical Society's School of Pharmacy. 106 <i>Whitham Road, Sheffield</i> ; and <i>The University, Sheffield.</i>	
1889 Yeo, Gerald Francis, M.D. (Dublin) F.R.C.S. Emeritus Professor of Physiology in King's College, London. <i>Bowden, Totnes, South Devon.</i>	
1893 Young, Sydney, D.Sc. (Lond.) Sc.D. (Dubl.) B.Sc. (Manch.) F.C.S. F.I.C. M.R.I.A. Professor of Chemistry in Trinity College, Dublin. 12 <i>Raglan Road, Dublin.</i>	

FOREIGN MEMBERS.

Date of Election		Medal.
1891.	Agassiz, Alexander. <i>Cambridge, Mass., U.S.A.</i>	
1897.	Amagat, Émile Hilaire. <i>École Polytechnique, Paris</i>	
1879.	Auwers, Georg Friedrich Julius Arthur, <i>Lindenstrasse, 91, Berlin</i>	
1885.	Baeyer, Adolf von. <i>Universität, Munich</i>	Davy.
1877.	Berthelot, Marcellin. <i>Secrétariat de l'Institut, Paris</i>	Copley, Davy.
1902.	Brogger, Waldemar Christofer. <i>K. Frederiks Universitet, Christiania</i>	
1889.	Cannizzaro, Stanislao. <i>Reale Università, Rome</i>	Copley.
1889.	Chauveau, Jean Baptiste Auguste. <i>Avenue Jules Janin, 10, Paris</i>	
1902.	Darboux, Gaston. <i>Secrétariat de l'Institut, Paris</i>	
1905.	De Vries, Hugo. <i>Universiteit, Amsterdam</i>	Darwin.
1899.	Dohrn, Anton. <i>Naples</i>	
1899.	Fischer, Emil. <i>Universität, Berlin</i>	
1895.	Gaudry, Albert. <i>Rue des Saints-Pères, 7 bis, Paris</i>	
1896.	Heim, Albert. <i>Hochschule, Zürich</i>	
1902.	Hering, Ewald. <i>Universität, Leipzig</i>	
1905.	Hermann, Ludimar. <i>Universität, Königsberg</i>	
1902.	Hill, George William. <i>West Nyack, New York State, U.S.A.</i> ..	
1897.	Hoff, J. H. van't. <i>Universität, Berlin</i>	
1875.	Janssen, Pierre Jules César. <i>Observatoire de Meudon, Paris</i> ..	Rumford.
1885.	Klein, Felix. <i>Wilhelm Weber Strasse 3, Göttingen</i>	
1897.	Koch, Robert. <i>Universität, Berlin</i>	
1895.	Kohlrausch, Friedrich. <i>Marburg</i>	
1901.	Leydig, Franz von. <i>Rothenburg a.d. T. Württemberg</i>	
1896.	Lippmann, Gabriel. <i>Faculté des Sciences à la Sorbonne, Paris</i> ..	
1905.	Lorentz, Henrik Anton. <i>Hooigracht 48, Leyden</i>	
1892.	Mascart, Éleuthère Élie Nicolas. <i>Rue de l'Université, 176, Paris</i>	
1892.	Mendeleeff, Dmitri Ivanovitch. <i>19, Zabalkansky, St. Petersburg</i> ..	Copley, Davy.
1895.	Metschnikoff, Elias. <i>Institut Pasteur, Paris</i>	Copley.
1902.	Michelson, Albert Abraham. <i>University, Chicago, U.S.A.</i> ..	
1896.	Mittag-Leffler, Gösta. <i>Högskolan, Stockholm</i>	
1905.	Moissan, Henri. <i>Faculté des Sciences à la Sorbonne, Paris</i> ..	
1899.	Neumayer, Georg von. <i>Hohenzoller Strasse, 9, Neustadt an der Haardt</i>	
1877.	Newcomb, Simon. <i>1620, P Street, Washington, U.S.A.</i>	Copley.
1897.	Pfeffer, Wilhelm. <i>Universität, Leipzig</i>	
1888.	Pfäuger, Eduard Friedrich Wilhelm. <i>Universität, Bonn</i>	
1894.	Poincaré, Henri. <i>63, Rue Claude-Barnard, Paris</i>	Sylvester.

Date of Election	Medal.
1879. Quincke, Georg Hermann. <i>Friedrichsbau, Heidelberg</i>	
1896. Schiaparelli, Giovanni. <i>R. Osservatorio Astronomico di Brera, Milan</i>	
1902. Solms-Laubach, Graf H. zu. <i>Universität, Strasburg</i>	
1891. Strasburger, Eduard. <i>Universität, Bonn</i>	
1894. Suess, Eduard. <i>Geologisches Museum, Vienna</i>	Copley.
1902. Thomsen, Julius. <i>Lindevei 13, Copenhagen</i>	Davy.
1899. Treub, Melchior. <i>Buitenzorg, Java</i>	
1897. Zirkel, Ferdinand. <i>Universität, Leipzig</i>	

FELLOWS DECEASED DURING THE YEAR 1906.

On the Home List.

Beale, Lionel Smith.	Reed, Sir Edward James, K.C.B.
Baller, Sir Walter Lawry, K.C.M.G.	Snelus, George James.
Clarke, Charles Baron.	Sprengel, Hermann Johann Philipp.
Grant-Duff, Sir Mountstuart Elphinstone, G.C.S.I.	Thuillier, General Sir Henry E. L.
Joly, Charles Jasper.	Tristram, Rev. Canon Henry Baker.
Moncrieff, Col. Sir Alexander, K.C.B.	Ward, Harry Marshall.
	Weldon, Walter Frank Raphael.

On the Foreign List.

Boltzmann, Ludwig.	Langley, Samuel Pierpont.
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Change of Name and Title.

Lefevre, Rt. Hon. George John Shaw, to Lord Eversley.

FELLOWS ELECTED DURING THE YEAR 1906.

His Royal Highness The Duke of Connaught and Strathearn.

Andrews, Charles William.	Lees, Charles Herbert.
Beilby, George Thomas.	Lyons, Capt. Henry George.
Blackman, Frederick Frost.	Macallum, Archibald B.
Bromwich, Thomas John l'Anson.	Marsh, James Ernest.
Cowell, Philip Herbert.	Mitchell, Peter Chalmers.
Haldane, Richard Burdon.	Swinburne, James.
Heape, Walter.	Wilson, Harold A.
Iveagh, Viscount.	Wright, Sir Almroth Edward.
Jeans, James Hopwood.	

COMMITTEES, 1907.

NOTE.—*The President, by Statute, presides over all Committees which he attends.*

The Treasurer, Principal Secretaries, and Foreign Secretary are ex officio members of all Committees, excepting the Scientific Relief Committee, the Sectional Committees, and any Committees composed of representatives of the Royal and other Societies jointly.

Each Committee, excepting those specified in the preceding paragraph, has power to co-opt additional members, subject to their names being reported to the Council for approval. Membership of such Committees is not necessarily confined to Fellows of the Royal Society.

STANDING AND OCCASIONAL COMMITTEES.

ANTARCTIC MAGNETIC OBSERVATIONS COMMITTEE.

Dr. Chree (*Secretary*), Capt. Creak, Admiral Field, Dr. Glazebrook, Sir J. Murray, Prof. Schuster, Dr. W. N. Shaw, Capt. Tizard, with Lieut. Armitage, and Commander Chetwynd.

ANTARCTIC METEOROLOGICAL OBSERVATIONS COMMITTEE.

Mr. J. Y. Buchanan, Dr. Chree, Mr. W. H. Dines, Admiral Field, Dr. Glazebrook, Sir J. Murray, Dr. W. N. Shaw (*Secretary*), Capt. Tizard, and Mr. C. T. R. Wilson, with Mr. H. N. Dickson, Mr. Ferrar, Mr. A. J. Herbertson, Dr. H. R. Mill, and Lieut. Royds.

CATALOGUE OF SCIENTIFIC PAPERS COMMITTEE.

Chairman—Sir John Evans.

Prof. Armstrong, Mr. Bateson, Sir John Evans, Sir M. Foster, Prof. Judd, Dr. Klein, Sir J. N. Lockyer, Prof. McKendrick, Prof. McLeod, Mr. G. B. Mathews, Dr. L. Mond, Sir W. H. Preece, Dr. Routh, Mr. E. Saunders, Prof. A. C. Seward, Dr. D. H. Scott, Dr. Thorpe, and Prof. Tilden.

"CHALLENGER" REPORTS COMMITTEE.*Chairman*—Sir J. D. Hooker.

Sir M. Foster, Prof. Herdman, Sir J. D. Hooker, Prof. Lankester, Sir J. Murray, and Sir W. T. Thiselton-Dyer.

EVOLUTION COMMITTEE.*Chairman*—Mr. F. D. Godman.

Mr. W. Bateson, Mr. Burbury, Prof. Ewart, Mr. F. D. Godman, Mr. W. Heape, Prof. Lankester, Prof. Macalister, Dr. Masters, and Prof. Poulton, with Sir E. Clarke, Mr. L. Doncaster, and Mr. L. Sutton.

FINANCE COMMITTEE.*Chairman*—The Treasurer.

Mr. Horace Brown, Mr. G. Matthey, Dr. L. Mond, Dr. Müller, Sir Andrew Noble, Dr. T. E. Thorpe, Sir James Stirling, and Sir J. W. Swan.

INDIAN GOVERNMENT ADVISORY COMMITTEE.*Chairman*—Mr. Francis Darwin.

Lt.-Col. Alcock, Mr. H. T. Brown, Col. D. Bruce, Prof. Dunstan, Sir M. Foster, Mr. Gamble, Dr. Günther, Sir Joseph Hooker, Sir George King, Mr. R. Lydekker, Lt.-Col. D. Prain, Prof. W. Schlich, Mr. A. E. Shipley, Gen. Sir R. Strachey, and Sir W. T. Thiselton-Dyer, with Surg.-Gen. Branfoot, and Sir J. McFadyean.

INTERNATIONAL CATALOGUE COMMITTEE.

Prof. Armstrong, Mr. H. T. Brown, Sir W. H. M. Christie, Prof. Forsyth, Sir M. Foster, Prof. Halliburton, Prof. Lapworth, Sir J. N. Lockyer, Prof. Love, Prof. McLeod, Major MacMahon, Prof. Miers, Dr. L. Mond, Dr. D. H. Scott, Mr. Sharp, Gen. Sir R. Strachey, Mr. Teall, Mr. Oldfield Thomas, and Dr. T. E. Thorpe, with Mr. B. Daydon Jackson.

JOINT PERMANENT ECLIPSE COMMITTEE.*(On the part of the Royal Society.)*

The Astronomer Royal, Sir W. de W. Abney, Prof. H. L. Callendar, Admiral A. M. Field, Prof. J. Larmor, Sir J. N. Lockyer, Major MacMahon, Prof. Schuster, Dr. G. J. Stoney, Lt.-Gen. Tennant, and Dr. Thorpe.

LIBRARY COMMITTEE.

Chairman—Prof. Carey Foster.

Prof. W. Grylls Adams, Prof. Bonney, Prof. J. N. Collie, Prof. Farmer, Prof. Carey Foster, Prof. Greenhill, Prof. Halliburton, Dr. Harmer, Mr. Mathews, Prof. McLeod, Prof. D. Oliver, Dr. Selater, and Prof. S. P. Thompson, with power to expend not exceeding £250 in the purchase of books, and a sum not exceeding £150 in binding books belonging to the Society.

OBSERVATIONS OF EROS COMMITTEE.

The Astronomer Royal, Sir G. Darwin, Prof. Dyson, Prof. R. A. Sampson, and Prof. H. H. Turner, with Mr. A. R. Hinks.

OBSERVATORIES COMMITTEE.

Chairman—The Astronomer Royal.

The Astronomer Royal, the President of the Royal Astronomical Society, Sir W. de W. Abney, Sir G. H. Darwin, Prof. F. W. Dyson, Sir J. Eliot, Sir J. N. Lockyer, Mr. H. F. Newall, Sir Arthur Rücker, Prof. A. Schuster, Dr. W. N. Shaw, Gen. Sir R. Strachey, and Prof. H. H. Turner.

SCIENTIFIC RELIEF COMMITTEE.

Chairman—Major MacMahon.

Dr. Glaisher, Dr. Waller, Major MacMahon, Mr. Teall, Sir T. Lauder Brunton, Sir W. D. Niven, Mr. H. T. Brown, Prof. Clifton, Mr. F. Darwin, and Sir James Stirling.

(Two Members, determined by seniority, to retire annually.)

SEISMOLOGY COMMITTEE.

Sir W. de W. Abney, Mr. C. V. Boys, Sir G. H. Darwin, Mr. Horace Darwin, Prof. J. A. Ewing, Prof. Carey Foster, Prof. J. W. Judd, Prof. Milne, Prof. Perry, Mr. C. Reid, Prof. Schuster, Mr. Teall, and Prof. H. H. Turner.

SOIRÉE COMMITTEE.

Chairman—Sir W. Crookes.

Mr. W. Bateson, Mr. Boys, Sir W. Crookes, Sir J. Evans, Prof. Farmer, Major MacMahon, Mr. A. Mallock, Prof. Meldola, Prof. Miall, Prof. Perry, Prof. Poulton, Lt.-Col. D. Prain, Dr. R. H. Scott, and Dr. A. S. Woodward.

(Three Members, to be determined by longest service or least attendance, retire annually.)

SOLAR RESEARCH COMMITTEE.

Chairman—Prof. Schuster.

Sir W. Huggins, the Astronomer Royal, Sir J. N. Lockyer, Prof. A. Schuster, Prof. H. H. Turner, and Mr. H. F. Newall.

TROPICAL DISEASES COMMITTEE.

Chairman—Prof. Lankester.

Prof. Clifford Allbutt, Sir Rubert Boyce, Prof. Bradford, Colonel D. Bruce, Sir M. Foster, Sir J. Kirk, Dr. Klein, Prof. Ray Lankester, Lord Lister, Dr. C. J. Martin, Prof. Sidney Martin, Dr. Mott, Prof. Nuttall, Major R. Ross, and Prof. Sherrington, with Surg.-Gen. Branfoot, Mr. C. P. Lucas of the Colonial Office, Sir J. McFadyean, Dr. Moffat, and Mr. H. G. Plimmer.

SECTIONAL COMMITTEES.

1. Mathematics Committee :—

(Two to retire each year.)

Chairman—Prof. Burnside.

	To serve.		
Prof. Burnside	1 year.	Retires Dec., 1907.	
Sir G. H. Darwin	1 "	" " "	" "
Prof. M. J. M. Hill	2 years.	" " "	1908.
Sir W. D. Niven	2 "	" " "	" "
Prof. A. G. Greenhill ...	3 "	" " "	1909.
Prof. A. E. H. Love	3 "	" " "	" "

2. Physics and Chemistry Committee :—

(Four to retire each year.)

Chairman—Prof. A. Schuster.

	To serve.			
Prof. Tilden	1 year.	Retires	Dec., 1907.	
Mr. H. T. Brown	1	"	"	"
Dr. Chree	1	"	"	"
Dr. Buchan.....	1	"	"	"
Prof. J. N. Collie	2 years.	"	"	1908.
Prof. W. C. Unwin	2	"	"	"
Prof. W. M. Hicks.....	2	"	"	"
Prof. W. G. Adams	2	"	"	"
Prof. J. H. Poynting ...	3	"	"	1909.
Prof. A. Schuster	3	"	"	"
Sir J. Dewar	3	"	"	"
Mr. C. T. R. Wilson	3	"	"	"

3. Geology Committee :—

(Three to retire each year.)

Chairman—Mr. A. Strahan.

	To serve.			
Mr. A. Harker	1 year.	Retires	Dec., 1907.	
Mr. A. Strahan	1	"	"	"
Admiral M. Field	1	"	"	"
Prof. Sollas.....	2 years.	"	"	1908.
Mr. R. Kidston	2	"	"	"
Sir G. D. Taubman Goldie	2	"	"	"
Prof. W. W. Watts	3	"	"	1909.
Dr. A. S. Woodward.....	3	"	"	"
Prof. J. Geikie	3	"	"	"

4. Botany Committee :—

(Three to retire each year.)

Chairman—Prof. A. C. Seward.

	To serve.			
Mr. H. Wager	1 year.	Retires	Dec.,	1907.
Prof. Seward	1 "	"	"	"
Mr. Gamble	1 "	"	"	"
Lt.-Col. D. Prain	2 years.	"	"	1908.
Prof. F. W. Oliver	2 "	"	"	"
Prof. J. R. Green	2 "	"	"	"
Prof. J. B. Farmer	3 "	"	"	1909.
Prof. I. B. Balfour.....	3 "	"	"	"
Mr. F. F. Blackman	3 "	"	"	"

5. Zoology Committee :—

(Three to retire each year.)

Chairman—Prof. Hickson.

	To serve.			
Mr. Boulenger	1 year.	Retires	Dec.,	1907.
Mr. Shipley	1 "	"	"	"
Prof. J. C. Ewart	1 "	"	"	"
Prof. Poulton.....	2 years.	"	"	1908.
Prof. Hickson.....	2 "	"	"	"
Rev. T. R. R. Stebbing...	2 "	"	"	"
Prof. T. W. Bridge	3 "	"	"	1909.
Lord Walsingham	3 "	"	"	"
Mr. E. S. Goodrich	3 "	"	"	"

6. Physiology Committee :—

(Four to retire each year.)

Chairman—Prof. Sidney Martin.

	To serve.			
Prof. Osler	1 year.	Retires	Dec.,	1907.
Prof. T. G. Brodie.....	1 "	"	"	"
Dr. H. Head	1 "	"	"	"
Mr. W. B. Hardy	1 "	"	"	"
Prof. S. Martin	2 years.	"	"	1908.
Dr. F. G. Hopkins.....	2 "	"	"	"
Prof. Schäfer	2 "	"	"	"
Dr. J. S. Haldane	2 "	"	"	"
Dr. A. D. Waller	3 "	"	"	1909.
Prof. J. N. Langley	3 "	"	"	"
Prof. F. Gotch	3 "	"	"	"
Sir A. E. Wright	3 "	"	"	"

GOVERNMENT GRANT BOARDS, 1907.

BOARD A.

(Mathematics, Mathematical Physics, Crystallography, and
Mathematical Astronomy.)*Chairman*—Prof. Love.

Prof. F. W. Dyson, Prof. G. A. Gibson	December, 1907	<i>Retire.</i>
Prof. E. B. Elliott, Prof. A. E. H. Love	„	1908
Sir G. H. Darwin, Mr. G. B. Mathews...	„	1909
Prof. H. A. Miers, Prof. E. T. Whittaker	„	1910

BOARD B.

(Experimental Physics, Observational Astronomy, and Meteorology.)

Chairman—Mr. C. V. Boys.

Mr. C. V. Boys, Prof. E. H. Griffiths	...December, 1907	
Prof. H. L. Callendar, Prof. R. B. Clifton	„	1908
Mr. H. F. Newall, Prof. C. Niven	.....	„ 1909
Prof. J. Joly, Prof. F. T. Trouton	.....	„ 1910

BOARD C.

(Chemistry and Metallurgy.)

Chairman—Dr. Thorpe.

Mr. H. B. Baker, Dr. T. E. Thorpe	.....December, 1907	
Prof. P. F. Frankland, Dr. A. Scott	.....	„ 1908
Prof. Crum Brown, Prof. H. B. Dixon	...	„ 1909
Prof. S. Young, Prof. R. Meldola	.....	„ 1910

BOARD D.

(Geology, Palæontology, Mineralogy, and Geography.)

Chairman—Dr. J. E. Marr.

		<i>Retire.</i>
Dr. J. Horne, Prof. Judd	December, 1907	
Mr. E. T. Newton, Mr. J. J. H. Teall ...	„ 1908	
Dr. J. E. Marr, Prof. J. Joly.....	„ 1909	
Admiral Field, Prof. W. J. Sollas.....	„ 1910	

BOARD E.

(Botany.)

Chairman—Prof. J. B. Farmer.

Prof. F. O. Bower, Prof. A. C. Seward...	December, 1907	
Prof. J. B. Farmer, Prof. S. H. Vines ...	„ 1908	
Prof. F. W. Oliver, Lt.-Col. D. Prain ...	„ 1909	
Prof. J. W. H. Trail, Prof. F. E. Weiss..	„ 1910	

BOARD F.

(Zoology and Comparative Anatomy.)

Chairman—Dr. Harmer.

Mr. W. Bateson, Dr. S. F. Harmer	December, 1907	
Mr. G. A. Boulenger, Prof. J. G. Kerr ...	„ 1908	
Mr. H. Balfour, Dr. R. F. Scharff.....	„ 1909	
Prof. S. J. Hickson, Prof. E. B. Poulton	„ 1910	

BOARD G.

(Animal Physiology and Medical Subjects.)

Chairman—Dr. Waller.

Prof. J. G. McKendrick, Prof. C. S. Sherrington	Dec., 1907	
Colonel D. Bruce, Dr. W. H. Gaskell	„ 1908	
Dr. C. J. Martin, Prof. W. H. Thompson	„ 1909	
Dr. F. G. Hopkins, Dr. A. D. Waller.....	„ 1910	

STATUTES OF THE ROYAL SOCIETY.

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CHAPTER I.

Of the Election and Admission of Fellows.

I. No person shall be proposed, elected, or admitted a Fellow of the Society on the day of the Anniversary Meeting for electing the Council and Officers.

II. Every Fellow, previously to his proposing a person as a Candidate for Election, shall inform him of the Obligation to be subscribed, of the sum to be paid for admission money, and of the payments to be made to the Society, before he can be admitted a Fellow.

III. Every such Candidate shall be proposed and recommended by a certificate in writing signed by six or more Fellows, of whom three at least shall certify their recommendation from personal knowledge. The certificate shall specify the name, rank, profession, qualifications, and usual place of residence of the Candidate; and being delivered to one of the Secretaries, or to the Assistant Secretary,

shall be registered, with the date of delivery, in a book to be kept for the purpose, and read at the next ordinary meeting; and, unless otherwise ordered, shall be suspended in some convenient place in the apartments of the Society until the day of election.

Names of
Candidates
to be
announced
in January.

IV. At the first Ordinary Meeting of the Society in January, the names of all Candidates proposed prior to the first day of that month, and subsequently to the last announcement of the names of Candidates, and also the names of those Candidates whose certificates have been resuspended as hereinafter provided, shall be announced by one of the Secretaries from a list arranged in alphabetical order, without reference to the dates of the certificates of the Candidates; and these certificates shall remain suspended until the day of Election.

List of
Candidates to
be printed.

V. In the first week in February, a list shall be printed, containing the names of all the Candidates so announced at the first Meeting in January, arranged in alphabetical order, without reference to the dates of the certificates, together with the names of the Fellows by whom each Candidate is proposed and recommended; and a copy of such list shall immediately thereafter be sent to every Ordinary Fellow.

Selection by
Council.

VI. The Council shall select by ballot from such printed list of Candidates a number not exceeding fifteen, to be recommended to the Society for Election; but no such selection by the Council shall be valid unless eleven Members at least be present and vote, a majority deciding, or in the event of equality the President having a second or casting vote.

Selected
Names com-
municated to
Fellows.

VII. At the first Ordinary Meeting of the Society in March, the President shall read from the Chair the names of the Candidates whom the Council have selected as most eligible, arranged in alphabetical order; and after such Meeting, a circular letter shall be forthwith sent to every Fellow, naming the day and hour of Election, and enclosing a printed list of the selected Candidates, with space for such alterations as any Fellow may determine to make in pursuance of Statute IX of this Chapter.

Date of
Election.

VIII. The election of Ordinary Fellows not included in the privileged classes referred to in Statutes XII and XIII of this Chapter, shall take place on the first Thursday of May; unless the Council shall alter the day of Election to any other day in the month of May, in which case due notice of such alteration shall be given to every Ordinary Fellow.

Election
Procedure.

IX. On the day of Election two Scrutators shall be nominated by the President, with the approbation of the Society, to assist the Secretaries in examining the lists; and each Fellow present and

voting, shall deliver to one of the Secretaries or Scrutators one of the printed lists mentioned in Statute VII of this Chapter, having erased the name of any Candidate or Candidates for whom he does not vote, and, if he shall have thought fit, having substituted or added the name of any other Candidate or Candidates contained in the printed list sent in pursuance of Statute V of this Chapter.

X. One of the Secretaries shall take down the names of the Fellows who vote, and the Scrutators, after examining the lists with the Secretaries, shall report to the President the names of the Candidates who shall have been duly elected in compliance with the Charters, and the President shall announce those names from the Chair.

XI. Any Candidate whose name shall have been printed in a previous list of Candidates, but who shall not have been elected, shall, if his proposers, or any one of them, so request in writing, before the 31st December immediately preceding an election, be a Candidate at such election; his name shall be placed in alphabetical order with those of the new Candidates to be announced in January following, and his certificate shall be suspended along with those of the new Candidates. Provided always that the same certificate shall not be valid for more than five years from the date thereof. Any additional qualifications of a Candidate may be set forth in a supplementary certificate to be signed by not fewer than six Fellows. Renewal of
Candidature.

XII. Any one of His Majesty's subjects who is a Prince of the Blood Royal may be proposed at one of the Ordinary Meetings of the Society by any Fellow, and may be put to the vote for Election on the same day, provided public notice of such proposition shall have been given by the proposer at the preceding Meeting of the Society. Royal
Family.

XIII. In cases in which the Council is of opinion that, in the interests of the advancement of Natural Knowledge, it is desirable that persons be elected Fellows of the Society otherwise than as provided by Statutes III to XII of this Chapter, they may, once in every two years, recommend to the Society for election not more than two persons, who, in their opinion, either have rendered conspicuous service to the cause of science, or are such that their election would be of signal benefit to the Society. The persons so recommended shall be selected by the Council by ballot, in accordance with the procedure established by Standing Orders of Council. Provided always that no person shall be so recommended unless he obtains two-thirds of the votes of the whole Council. Special
Elections.

At the Ordinary Meeting of the Society next following the Meeting of Council at which such selection is made, the person or

persons nominated shall be proposed for election by means of a certificate prepared in accordance with Statute III of this Chapter, no distinction, however, being made between personal and general knowledge, and the ground on which the Candidate has been nominated by the Council, that is to say, whether as having rendered conspicuous service to the cause of science, or as such that his election would be of signal benefit to the Society, being alone stated as the qualification. Such certificate, on being allowed by the Society, shall be suspended in some convenient place in the apartments of the Society until the day on which a ballot is taken upon it. The date for the ballot, which shall not be earlier than the third Ordinary Meeting after that at which the certificate is read, shall be announced at the head of the certificate.

Admission.

XIV. Every person who is elected a Fellow shall appear for his admission on or before the fourth Ordinary Meeting of the Society after the day of his Election, or within such further time as shall, for some sufficient cause, be granted by the Council; otherwise his election shall be void.

XV. The admission of any Fellow into the Society shall be at some Ordinary Meeting, in manner and form following, he having first made the payments required by the Statutes. Immediately after the reading of the Minutes has been concluded, he shall subscribe the Obligation in the Charter-book, and be introduced to the President, who, taking him by the hand, shall say these words: *I do, by the authority and in the name of the Royal Society of London, for Improving Natural Knowledge, admit you a Fellow thereof.*

Admission,
&c., to be
recorded.

XVI. The Election, the payments made previous to admission, and the Admission of every person into the Society, with the time thereof, shall be recorded in the Journal-book.

XVII. No person shall be deemed a Fellow of the Society until he has made the payments required by the Statutes: nor shall he be entitled to vote at any Election or Meeting of the Society until he shall have been admitted in the manner and form above specified.

Foreign
Members.

XVIII. Persons may be elected into the Society, under the title of Foreign Members, who are neither natives nor inhabitants of His Majesty's dominions, and shall be exempted from the operation of Chapters II and III of these Statutes; they shall be selected from among men of the greatest eminence for their scientific discoveries and attainments.

XIX. The Council shall from time to time, as they shall see fit, put in nomination persons for Election as Foreign Members, not exceeding, with those already elected, the number of fifty.

Procedure for Election of Foreign Members.

XX. A book shall be kept in which Fellows of the Society may enter the names of those men of science whom they suggest as Foreign Members; each entry shall be signed by the proposer and be accompanied by a statement of the principal grounds on which the suggestion is made, and shall be valid for three years only.

XXI. When vacancies in the list of Foreign Members are to be filled up, a list of the persons so entered shall be sent to each Member of the Council, together with notice of the Meeting at which the list will be considered. At the Meeting thus appointed further entries may be made, and the claims of those men of science whose names have been duly entered in the book shall be considered, and a selection of names shall be made, from among which the Council, at a subsequent Meeting to be then appointed, may make nominations to the Society.

XXII. At the second Meeting the selection of Candidates to be so nominated for Foreign Membership shall be by ballot; when, if two-thirds of the Members of the Council present be in favour of the nomination of any Candidate, his name shall be proposed at the next Ordinary Meeting of the Society, and shall be put to the vote by ballot at the following Ordinary Meeting.

CHAPTER II.

Of the Obligation to be Subscribed.

EVERY person elected a Fellow of the Society shall, before his admission, subscribe the Obligation in the following words:—

We who have hereunto subscribed, do hereby promise each for himself, that we will endeavour to promote the good of the Royal Society of London, for Improving Natural Knowledge, and to pursue the ends for which the same was founded; that we will be present at the Meetings of the Society, as often as conveniently we can, especially at the Anniversary Elections, and upon extraordinary occasions; and that we will observe the Statutes and Orders of the said Society. Provided, that whensoever any of us shall signify to the President under his hand, that he desireth to withdraw from the Society, he shall be free from this Obligation for the future.

And if any person elected shall refuse to subscribe the said Obligation, the election of that person shall be void.

CHAPTER III.

Of the Payments to be made by the Fellows to the Society.

Annual
Contribu-
tions.

I. EVERY person elected a Fellow of the Society shall, before he is admitted, pay the sum of *ten pounds* for admission money, the sum of *four pounds* for the year of his election, and the same sum annually in advance so long as he shall continue a Fellow of the Society. And if any such person shall refuse or fail to pay the said sums, he shall not be admitted, and his Election shall be void: except the said sums be remitted in whole, or in part, by special order of the Council. Provided always that, except in the case of Fellows elected under Statutes XII and XIII of Chapter I, the admission fee of each Fellow shall be paid out of the Fee Reduction Fund, and shall not be demanded of the Fellow; and that, except in the case of Fellows elected under Statutes XII and XIII of Chapter I, Fellows elected before 11th July, 1902, by reason of their being Members of the Privy Council, and Fellows elected before January, 1879, *one pound* of the annual contribution shall be paid out of the Fee Reduction Fund.

Life Compo-
sitions.

II. All who have or may become Fellows of the Society may at any time compound for their annual payments, by paying at once the sum of *sixty pounds*.

Annual Con-
tributions due
March 25th.

III. All Annual Contributions shall be considered to be due on the 25th day of March in each year. Every Fellow of the Society liable to an Annual Payment shall, previously to the 25th day of March in every year, bring or send the same to the Treasurer or the Assistant Secretary. And if any such Fellow, after notice sent by post to his usual address, in May, and again in September, shall fail to pay the same before the first day of October in each year, his name shall be suspended in the public Meeting-room of the Society as being in arrear, and shall continue so suspended until the sum due be paid. And if any such Fellow shall fail to pay his subscription on or before the first day of November in each year, no satisfactory reason having been assigned to the President and Council for such non-payment, he shall cease to be a Fellow of the Society. Provided, nevertheless, that on a solicitation for readmission being addressed to the President and Council by an individual so circumstanced, within the space of one year following St. Andrew's Day, the case of the individual so soliciting shall be stated by the President from the Chair, at one of the Ordinary Meetings of the Society, and the question of his readmission be put to the vote at the next Ordinary Meeting of the Society.

Consequences
of Non-
payment.

CHAPTER IV.

Of the Death or Recess of Fellows.

I. THE Death or Recess of any Fellow of the Society shall be forthwith recorded in the Register of Fellows, and the names thus recorded shall be announced from the Chair at the Anniversary Meeting for electing the Council and Officers.

Record of
Deaths, &c.

CHAPTER V.

Of the Causes and Form of Ejection.

I. If any Fellow of the Society shall contemptuously or contumaciously disobey the Statutes or Orders of the Society or Council ; or shall, by speaking, writing, or printing, publicly defame the Society ; or advisedly, maliciously, or dishonestly do anything to the damage, detriment, or dishonour thereof, he shall be ejected out of the Society.

Grounds for
Ejection of
Fellows.

II. Whensoever there shall appear to be cause for the ejection of any Fellow out of the Society, the subject shall be laid before the Council ; and if a majority of the Council shall, after due deliberation, determine by ballot to propose to the Society the ejection of the said Fellow, the President shall in that case, at some Ordinary Meeting of the Society, announce from the Chair such determination of the Council ; and at the Ordinary Meeting next after that at which the said announcement has been made, the Society shall proceed to determine the question ; and on its appearing that two-thirds of the Members present have voted for the ejection of the said Fellow, the President shall proceed to cancel his name in the Register, and at the same time pronounce him ejected in these words :—

Procedure in
Ejection of
Fellows.

I do, by the authority and in the name of the Royal Society of London, for Improving Natural Knowledge, declare A. B. to be now ejected, and no longer a Fellow thereof.

And the ejection of every such person shall be then recorded in the Journal-book of the Society ; and his name, as ejected, be also read at the next Anniversary Meeting for Elections.

CHAPTER VI.

Of the Election of the Council and Officers.

I. AT the two Ordinary Meetings of the Society next preceding the day of the Anniversary Election, the President shall give notice

Notice of
Election of
Council and
Officers.

of the said Election; and declare how much it imports the good of the Society, that such persons may be chosen into the Council, as are most likely to attend the Meetings and business of the Council, out of whom there may be made the best choice of a President and other Officers.

Summons to
Anniversary
Meeting.

II. Every Fellow of the Society resident in the United Kingdom shall have notice of the Anniversary Meeting for electing the Council and Officers for the year ensuing, by particular summons, which summons shall be sent to the address of such Fellow, a week at the least before the day of Meeting, and shall be to this effect:—

*These are to give notice, that on the day of
the Council and Officers of the ROYAL SOCIETY are to be elected
for the year ensuing; at which Election your presence is expected,
at of the clock in the precisely.*

Nomination
of the
Council and
Officers.

III. The Council for the ensuing year, out of which shall be chosen the President, Treasurer, Principal Secretaries, and Foreign Secretary, shall consist of eleven Members of the existing Council, and of ten Fellows who are not Members of the existing Council.

IV. The President and Council shall, previous to the Anniversary Meeting, nominate, by ballot, eleven Members of the existing Council, and also ten Fellows, not Members of the existing Council, whom they recommend to the Society for Election into the Council for the ensuing year. The President and Council shall also, in like manner, nominate by ballot, out of the proposed Council, the persons whom they recommend to the Society for election to the offices of President, Treasurer, Principal Secretaries, and Foreign Secretary for the ensuing year.

Election.

V. At the Ordinary Meeting of the Society preceding the Anniversary Meeting, the names of such persons so recommended for election as Council and Officers for the ensuing year shall be announced from the Chair.

Balloting
Papers.

VI. Lists, with the names of the Fellows recommended by the President and Council, and having a blank column opposite for such alterations as any Fellow may wish to make, shall be prepared for the use of the Fellows one week before the day of Election.

Scrutators.

VII. Two Scrutators shall be nominated by the President, with the approbation of the Society, to assist the Secretaries in examining the lists.

VIII. Each Fellow voting shall deliver his list to one of the Secretaries or Scrutators; and the name of each Fellow who shall so deliver in his list shall be noted by one of the Secretaries. Mode of Voting.

IX. The Scrutators, after examining the lists with the Secretaries, shall report to the Society the names of those having the majority of votes for composing the Council, and filling the offices of President, Treasurer, Principal Secretaries, and Foreign Secretary; the names of which persons shall then be announced from the Chair.

X. For electing any Member of the Council, or any Officer to be elected by the Society, upon such vacancies as shall happen in the intervals of the Anniversary Elections, the summons for such Election, and the proceedings in it, shall be after the same manner as is directed for the Anniversary Election. Elections to fill Casual Vacancies.

XI. Upon any vacancy of the President's place, occurring in the intervals of the Anniversary Elections, the Treasurer, or, in his absence, one of the Secretaries, shall cause the Council to be summoned for the Election of a new President: and the Council, meeting thereupon in the usual place, or any eleven or more of them, shall proceed to the said Election, and not separate until the major part of them shall have agreed upon a new President.

CHAPTER VII.

Of the President.

I. THE business of the President shall be to preside at all the meetings, and regulate all the debates, of the Society, Council, and Committees; to state and put questions both in the affirmative and negative, according to the sense and intention of the meetings; to call for reports and accounts from Committees, and others; to check irregularities, and to keep all persons to order; to summon all Meetings of the Council, and Committee of Papers; and to execute, or see to the execution of, the Statutes of the Society. Business of the President.

II. The President shall take precedence of every Fellow of the Society, at their ordinary place of meeting; and also in all other places, where any number of the Fellows meet as a Society, Council, or Committee. Precedence of the President.

III. The President shall annually appoint two or more Members of Council to be Vice-Presidents. In the absence of the President, Vice-Presidents.

one of the Vice-Presidents shall act as his deputy, and may do the same acts as the President himself could do if present; provided always that the Council may appoint any Fellow to be Chairman of any Committee other than the Committee of Papers, and in the absence of the President, such Fellow shall act as Chairman of such Committee.

CHAPTER VIII.

Of the Treasurer and his Accounts.

Duties of the Treasurer.

I. THE Treasurer, or some person appointed by him, with the approval of the Council, shall receive for the use of the Society all sums of money due or payable to the Society; and shall pay and disburse all sums due from or payable by the Society; and shall keep particular Accounts of all such receipts and payments.

Power to make Payments.

II. Every sum of money, payable on account of the Society, exceeding Ten Pounds, shall be paid only by order of the Council; but payments for rates or taxes, to any amount, may be made by the Treasurer, without any specific order of the Council for that purpose.

Investment of Moneys.

III. All sums of money, which there shall not be present occasion for expending or otherwise disposing of to the use of the Society, shall be laid out in such Government or other securities as shall be approved of and directed by the Council.

Audit of Accounts.

IV. The Accounts of the Treasurer shall be audited annually, a short time preceding the Anniversary Elections, by a Committee consisting of three Members of the Council, of whom the President or one of the Secretaries to be one; and of three Fellows of the Society not Members of the Council, who are to be nominated by the President, with the consent of the major part of the Fellows present, given by ballot at one of the three next preceding weekly meetings; any one or more of the said three Members of the Council, together with any one or more of the said three Fellows, shall be a Quorum of the said Committee: the Members of the said Committee who are of the Council shall make their Report to the Council held next after such audit, on or before the Anniversary Election; and the Members of the said Committee who are not of the Council shall make their Report to the Society, upon the Meeting next before the Anniversary Election, or on the day of the said Election.

V. As soon after the Audit as may be, and before the Anniversary Meeting, the Treasurer shall cause an abstract of the Society's Accounts of the preceding year to be printed for the use of the Fellows Accounts to be printed.

VI. The Treasurer shall have the charge of the Title Deeds of the Society's Estates, the Policies of Insurance, and Securities, and shall have the general care of the Society's property. Charge of Title Deeds.

CHAPTER IX.

Of the Two Secretaries.

I. THE two Secretaries shall be responsible to the Council for the general conduct of the Society's correspondence, publications, and all other business, excepting that which relates to finance. Duties of the Secretaries.

II. The Secretaries, or one of them, shall attend all meetings of the Society, Council, and Committee of Papers; where, when the President has taken the Chair, one of the Secretaries shall read the minutes, orders, and entries of the preceding meeting; and shall be responsible for the accuracy of the minutes of the business and orders of the present meeting, to be entered by the Assistant Secretary in the respective books to which they relate.

CHAPTER X.

Of the Foreign Secretary.

I. THE duty of the Secretary for Foreign Correspondence shall be to conduct correspondence with foreign parts, relating to the business of the Society, to return thanks for presents from foreigners made to the Society, and to forward to persons elected Foreign Members the Diplomas certifying their election into the Society. Duties of the Foreign Secretary.

CHAPTER XI.

Of the Assistant Secretary.

I. THE appointment of a person to the office of Assistant Secretary shall be by the Council, to whom the Officer so appointed shall give security, at the discretion of the Council; and he shall hold office during the pleasure of the Council. Appointment of the Assistant Secretary.

Assistant
Secretary not
a Fellow.

II. The person who shall be chosen to the office of Assistant Secretary, shall either not be a Fellow of the Society or, if a Fellow, shall cease to be so upon his appointment to, and acceptance of that office.

Payment of
the Assistant
Secretary.

III. The Assistant Secretary shall be paid for his services according to the determination of the Council. He shall be subject to such Standing Orders as shall be made, and shall follow such directions as may be given by the President and Council. He shall give all his time to the work of the Society, and shall attend in the Office of the Society as prescribed by such Standing Orders.

IV. The Assistant Secretary shall act under the general direction of the Secretaries, and in their absence shall represent them.

He shall also act on the directions which may be given him from time to time by the Treasurer in that part of his duties which relates to the finances of the Society.

Duties of the
Assistant
Secretary.

V. Subject to such Standing Orders and directions as aforesaid, the Assistant Secretary shall be charged with (1) the general administrative business of the Society: (2) the control of the Offices and library and of all persons therein employed, and the arrangement of the office work: (3) the conduct of the general correspondence.

It shall be his duty, except on such special occasions as may be specified by Standing Orders, or as may be determined by the President, to attend all meetings of the Council and Committees and take the minutes thereof, which minutes he shall submit to the Secretaries for their revision or approval.

VI. He shall, subject as aforesaid, have the charge and custody of the Charter-book, Statute-book, Journal-books of the Society and Council, Register-books, Manuscripts, and Archives belonging to the Society; all which shall, except in such cases as the Council shall otherwise order, be kept in the House of the Society, that they may be in readiness to be produced at any meetings of the Society or Council, as the case may require, or as shall be ordered by the Society, Council or President.

VII. He shall also, subject as aforesaid, have the charge and custody of the papers and writings relating to the business of the Society, and shall not suffer them to be removed from the House of the Society without the sanction of the Officers.

CHAPTER XII.

Of the Ordinary Meetings of the Society.

I. THE Session of the Society shall commence on the first Thursday in November, and end on the last Thursday in June. Duration of Session.

II. The Ordinary Meetings of the Society shall be on Thursdays weekly (excepting Christmas, Passion, and Easter weeks, and such other weeks at Christmas and Easter, in each year, as the Council may in the preceding year determine) and shall begin at half-past Four o'clock in the Afternoon precisely. Days of Meeting.

III. No stranger shall be permitted to be present during the Meeting, unless by invitation of the President, or by his leave or order upon the recommendation of some Fellow. Admission of Strangers.

IV. The business of the Society in their Ordinary Meetings shall be to order, take account, consider, and discourse of philosophical experiments and observations; to read, hear, and discourse upon letters, reports, and other papers containing philosophical matters; as also to view, and discourse upon, rarities of nature and art: and thereupon to consider, what may be deduced from them, or any of them; and how far they, or any of them, may be improved for use or discovery.* Business of Ordinary Meetings.

V. At the meetings of the Society, Lists of the Presents made from time to time to the Society shall be laid on the Table, by one of the Secretaries, for the inspection of the Fellows; and the thanks of the Society to the Donors shall be proposed from the Chair previously to the reading of the first Paper. One of the Secretaries shall give notice of any Candidate who stands proposed for election into the Society at that Meeting; and the Secretaries shall read Letters and Papers presented to the Society, in such manner as the President shall direct. Procedure at Meetings.

VI. No letter, report, or other paper shall be read at any Ordinary Meeting unless it be communicated by a Fellow or Foreign Member; and it shall be the duty of each Fellow or Foreign Member to satisfy himself that any letter, report, or other paper which he may communicate, is suitable to be read before the Society. Communication of Papers.

VII. The conduct of the Ordinary Meetings shall be in accordance with the Standing Orders determined from time to time by the Conduct of Meetings.

* This is the wording of the Statute as given in the Statutes of 1663.

President and Council, provided always that at the Ordinary Meetings nothing relating to Statutes or management of the Society shall be brought forward or discussed.

CHAPTER XIII.

Of Special General Meetings of the Society.

Anniversary
Meeting.

I. THE Anniversary Meeting for the election of the Council and Officers, and the Annual Meeting for the election of Fellows, shall take place at an hour to be determined by the Council.

Special
General
Meetings.

II. The President or Council may at any time call a Special General Meeting of the Society when it may appear to them to be necessary.

III. Any six Fellows may, by notice in writing, signed by them, and delivered to one of the Secretaries at an Ordinary Meeting of the Society, require a Special General Meeting of the Society to be convened, for the purpose of considering and determining on the matters specified in such requisition, and the President shall, within one week after such requisition shall have been so delivered, appoint a day for a Special General Meeting accordingly.

IV. One week's notice of any Special General Meeting shall be given to each Fellow resident in the United Kingdom, and such notice shall state the object of such Meeting.

V. At such Meeting no business shall be brought forward except what shall have been so notified.

CHAPTER XIV.

Of the Publication of Papers.

Committee
of Papers.

I. THE Members of the Council for the time being shall constitute and be a standing Committee, to be called the Committee of Papers, to whom the consideration of the acceptance, reading, and publication of all papers communicated to the Society shall be referred, and who shall execute their powers in accordance with Standing Orders determined from time to time by the President and Council. The Committee of Papers shall meet at such times as shall be appointed by the President; due and sufficient notice of such meeting having been previously sent to every Member of the Committee.

II. At a meeting of the said Committee no less number than Quorum. seven of the Members (of which number the President, or, in his absence, a Vice-President, shall always be one) shall be a quorum.

III. The decisions of the Committee of Papers shall be deter- Voting. mined by the majority of votes of those present and voting, and the voting shall be open, unless the President shall direct that the voting shall be by ballot. In case of an equality of votes, the President shall have a second or casting vote.

The decisions of the Committee shall be duly entered in the Minute-book of the Committee.

IV. The publication of papers communicated to the Society, and of Form of such other matters as the President and Council may judge fit to Publication. publish, shall take place under Standing Orders determined from time to time by the President and Council, but always in such a way that a proper portion of them shall from time to time be printed and published under the title of the 'Philosophical Transactions of the Royal Society of London,' and another proper portion under the title of the 'Proceedings of the Royal Society of London,' provided always that the President and Council shall have power to publish either papers or other matter in such form and under such conditions as they may from time to time determine.

V. The *Philosophical Transactions* and the *Proceedings* shall be printed at the sole charge, and for the use and benefit, of the Society, Fellows entitled to and of the Fellows thereof; to the intent that each of the present Publications *Gratis*. Fellows, who actually contributes and pays towards the support of the Society, or who has compounded for such contribution, according to the rules and orders established in relation thereto, or who has for other particular reasons been exonerated and discharged from such contribution by order of the Council, may receive *gratis*, under proper limitations, one copy of such of the *Philosophical Transaction*, and of the *Proceedings* as shall be printed as aforesaid; and that all persons who shall hereafter be admitted Fellows shall, under the same conditions, receive, and be entitled to, the like benefit and advantage.

VI. The Assistant Secretary shall deliver *gratis* one of the said Delivery of copies of the *Transactions* to every Fellow of the Society (except as *Transactions*. hereinafter excepted) who shall demand the same, either in person, or by letter.

Provided always, that no Fellow whatsoever of the Society shall be entitled to demand or receive any such copy of the *Transactions*, whose election and payment of Admission fees and regular Contributions shall not have preceded the date of the time appointed for the

delivery of the said *Transactions*; neither shall the Executor of any deceased Fellow receive a copy of the *Transactions* published after the death of such Fellow.

Limitation of
Time for
claiming
Transactions.

Provided also, that no Fellow of the Society shall receive, or be entitled to receive, *gratis*, any copy or copies of the *Transactions*, so printed as aforesaid, after five years shall have elapsed from the time of the Assistant Secretary's having begun to deliver out such copies respectively; but his neglecting to demand them for so long a time shall be deemed a forfeiture and dereliction of his right thereto: unless the Council for the time being, upon being made acquainted with the reason of such delay, and having regard to the circumstances of the application, and the amount of stock in hand, shall order such copies as they may think fit to be so delivered.

Delivery of
Proceedings.

VII. The Assistant Secretary shall further cause to be distributed *gratis* to all the Fellows of the Society, by post or otherwise, copies of the *Proceedings* as soon as may be convenient after their appearance.

CHAPTER XV.

Of the Books and Papers of the Society.

Charter Book.

I. THERE shall be had and kept a Book, called the *Charter-book*, wherein shall be fairly written the copy of the Charters, all the Royal Grants on the behalf of the Society, and the Obligation to be subscribed by the Fellows of the Society in their own hand-writing.

Statute Book.

II. There shall be kept a Book, called the *Statute-book*, wherein shall be fairly written, or printed, all the Laws, Statutes, and Constitutions made, or to be made, concerning the government and regulating of the Society or Council; and also a Register of the Fellows of the Society, with the times of their Election and Admission.

Register of
Fellows.

Journal
Books.

III. There shall be kept *Journal-books* of the Society, and also of the Council, wherein shall be entered all the minutes, orders, and business of the Society and Council at their respective meetings; to which Journal-books any Fellow may have access at such times as the Library is open.

Register of
Papers.

IV. A Book shall be kept, in which the title of each communication received, the date of its reception at the apartments of the

Society, and the name of the Fellow or Foreign Member who communicates it, shall be duly entered in the order of its reception.

V. The original copy of every Paper received at the Society shall be considered the property of the Society, if there be no previous engagement with its author to the contrary; but any author may withdraw a paper, provided it has not yet been read, or may, by leave of the Council, have a copy of his paper; and it shall be in the power of the Council, if they think fit, to return to any author such drawings or other illustrations accompanying any paper communicated by him or on his behalf, which he may ask in writing to be returned to him. All the Papers not withdrawn shall be delivered to the Committee of Papers.

Papers communicated.

Withdrawal of Papers.

CHAPTER XVI.

Of the Archives of the Society.

I. THE scientific and historical manuscript collections of the Society, including the collections of engravings, and also confidential reports relating to papers submitted to the Society, shall be preserved in the Archives, and catalogued so as to be available to duly authorised persons for consultation and study. The manuscripts of all papers read before the Society, of which the publication has been deferred, shall be preserved in the Archives.

Manuscripts.

II. A catalogue of the manuscripts in the Archives shall be available for reference at the rooms of the Society; and permission may be granted by the Council or Officers of the Society to Fellows or to any person duly introduced by a Fellow, to consult and examine specified manuscripts not of a confidential character.

Catalogue.

III. No manuscript deposited in the Archives shall be removed from the rooms of the Society without permission of the Council, on security given for its safe custody and return.

Manuscripts not to be removed.

CHAPTER XVII.

Of the Library.

I. THE Library shall be open to the Fellows on such days, and at such hours, and subject to such regulations, as the Council may from time to time determine by Standing Orders.

Library Regulations.

CHAPTER XVIII.

Of the Common Seal and Deeds.

Care of the
Seal.

I. THE Common Seal of the Society shall be kept in a box, the key of which shall be kept in a sealed packet. When the Common Seal has to be used, this packet shall be opened by the President in Council; and at the Council meeting at which it is so opened, the Common Seal having been replaced in the box, and the box locked, the key shall again be enclosed in a packet, which shall be sealed by the President with his private seal. The box and sealed packet shall be kept at the Society's Apartments in an iron safe

Sealing Deeds. II. Every Deed or writing, to which the Common Seal is to be affixed, shall be passed and sealed in Council.

CHAPTER XIX.

Of the Restraint of Dividends to Fellows.

I. THE Society shall not, and by its laws may not, make any Dividend, Gift, Division, or Bonus in Money unto or between any of its Members.

CHAPTER XX.

Of the Standing Orders of the Society.

Power to
make and
alter
Standing
Orders.

I. The Council may from time to time make Standing Orders for the regulation of the affairs of the Society, provided that such Standing Orders be not contrary to anything contained in the Charters or Statutes of the Society. Such Standing Orders may be made, amended or repealed at any meeting of the Council, provided that notice of any proposed new Standing Order, amendment or repeal has been given at the preceding Council. Such notice shall specify the proposed new Standing Order, amendment or repeal.

CHAPTER XXI.

Of the Making, Amending, and Repealing of Laws.

Procedure in
making or
altering
Statutes.

I. FOR the making of any new Statute of the Society or for the amendment or repeal of any Statute or any part thereof, notice of the proposed new Statute, amendment or repeal shall be given at a meeting of the Council, and such notice shall specify the proposed

new Statute, amendment or repeal. The Council shall thereupon appoint a day for the consideration of the proposal. On such day the question to be resolved shall be to this effect, viz., "Whether the proposed new Statute, amendment or repeal shall be proposed at another meeting?" And if this be determined in the affirmative the Council shall appoint a day for such proposal. On such day the question shall be to this effect, viz., "Whether the proposed new Statute, amendment or repeal shall be agreed upon?" And in case the said new Statute, amendment or repeal be agreed unto, the same shall be recorded in the Statute Book of the Society, and when so recorded shall pass for a law.

November 2, 1905.

STANDING ORDERS OF COUNCIL RELATING TO MEETINGS, SECTIONAL COMMITTEES, AND PUBLICATIONS.

(As amended Feb. 16th, 1899.)

NOTE.

By Statutes, Cap. XIV, Stat. I, the consideration of the acceptance, reading, and publication of all papers communicated to the Society is referred to the Council sitting as Committee of Papers; and in the following Standing Orders the word "Council," when used in connection with the acceptance, reading, or publication of papers, is to be understood to mean the Council sitting as Committee of Papers.

I.

Relating to the Conduct of Ordinary Meetings.

1. At each Ordinary Meeting, any formal business of the Society which may be necessary, such as the reading of certificates, balloting for candidates under Statutes, Cap. I, announcements, returning thanks for presents, &c., shall, unless the President direct otherwise, be the first business of the meeting.

2. At each Ordinary Meeting, not being "a Meeting for Discussion," as hereinafter provided, or for the Bakerian or the Croonian Lecture, the President shall determine what papers are to be read, and the order in which they shall be taken. He may also, whenever he sees fit, direct the author of a paper or one of the Secretaries to read an abstract of the paper or the paper itself, if it be sufficiently brief, or may invite the author to make an oral statement of the nature of its contents, and may also invite remarks upon the paper. When an oral statement is desired, the author shall, so far as possible, be previously informed of the fact. A paper shall be considered to have been "read" if one of the Secretaries has read its title only.

3. At any Ordinary Meeting, not being a "Meeting for Discussion," any Fellow of the Society may, with the approval of the President, and at such period of the Meeting as the President may determine, make a communication not of the nature of a "paper," or exhibit objects having relation to the advancement of Natural Knowledge.

4. The President shall further have power at any Ordinary Meeting, and at any period of that Meeting which he may think proper, to make such announcements or statements, as he may think desirable, relating to the advancement of Natural Knowledge.

5. In each year certain Ordinary Meetings, not more than four in number (exclusive of the Meetings set aside for the Bakerian and Croonian Lectures respectively), shall be devoted each to the hearing and consideration of some one important communication, or to the discussion of some important topic; these Meetings shall be termed "Meetings for Discussion."

6. The Council shall from time to time give due notice of the dates at which Meetings for Discussion will be held.

7. The Council, of its own motion, or upon the recommendation of a Sectional Committee, may select some communication made to the Society in the ordinary way, as the subject for such a Meeting for Discussion, or it may select for that purpose some question, the discussion of which would, in their judgment, be likely to advance Natural Knowledge. In the latter case, the Council shall appoint some person to open the discussion by means of a communication made by him for that purpose.

8. When a Meeting for Discussion has been arranged, the Council, or the Officers, shall direct printed copies of the communication which has been approved of for the said Meeting (or of an adequate abstract of it), to be sent not later than one week before the date of the Meeting, to each Fellow, or to certain Fellows of the Society, and to such other persons as the President may direct. And the Council shall take such other steps as may seem to it desirable to render the discussion useful towards the advancement of Natural Knowledge.

9. At each Meeting for Discussion, the conduct of the discussion shall be under the direction of the President, who shall arrange for the Fellows present and desiring to speak, and who shall have the power to invite, if he think fit, persons present, not Fellows of the Society, to take part in the discussion. Any Fellow shall be at liberty to send to the Secretaries, previous to the Meeting, written remarks on the communication which is the subject of the meeting, and the President shall, if he see fit, direct one or other of the Secretaries to read these remarks at the meeting.

II.

Relating to Sectional Committees.

10. The Council shall appoint, from among the Fellows of the Society, Committees representing the several branches of Natural Knowledge, and called "Sectional Committees." The Members of

each Committee shall be chosen with a view to secure, so far as is possible, a representation of the several sub-divisions of each branch of Natural Knowledge, and to obtain the assistance of Fellows who, from their connection with other societies, and otherwise, are specially qualified to advise the Council in respect to particular parts of Natural Knowledge.

11. It shall be the business of each Sectional Committee to advise the Council (whether sitting as the Committee of Papers or otherwise) or the Officers upon matters referred to it by the Council or by the Officers, and otherwise to make to the Council such suggestions as it may think desirable touching the branch or branches of Natural Knowledge which it represents, it being understood that no Sectional Committee shall offer advice to the Council as to the selection of candidates for admission into the Society as Fellows or Foreign Members, or as to the awards of Medals, unless the Council shall have asked for such advice.

12. The Council shall each year appoint a Member of each Committee to serve as Chairman of that Committee, and to be the channel of communication between the Committee and the Council or Officers.*

13. The Sectional Committees shall be six in number, viz. :—

- (1) A "Mathematics" Committee for Mathematics, Mathematical Physics, Crystallography, and Mathematical Astronomy.
- (2) A "Physics and Chemistry" Committee for Experimental Physics, Observational Astronomy, Meteorology, Chemistry, and Metallurgy.
- (3) A "Geology" Committee for Geology, Palæontology, Mineralogy, and Geography.
- (4) A "Botany" Committee for Botany.
- (5) A "Zoology" Committee for Zoology and Comparative Anatomy.
- (6) A "Physiology" Committee for Animal Physiology and Medical Subjects.

14. The "Mathematics" Committee shall consist of six Members, of whom two shall retire each year; three Members shall form a quorum.

The "Physics and Chemistry" Committee shall consist of twelve Members, of whom four shall retire each year; five Members shall form a quorum.

* By a resolution of Council of July, 1897, the Chairman of a Sectional Committee is authorised to appoint one of the Committee his Deputy when necessary.

The "Geology" Committee shall consist of nine Members, of whom three shall retire each year; four Members shall form a quorum.

The "Botany" Committee shall consist of nine Members, of whom three shall retire each year; four members shall form a quorum.

The "Zoology" Committee shall consist of nine Members, of whom three shall retire each year; four members shall form a quorum.

The "Physiology" Committee shall consist of twelve Members, of whom four shall retire each year; five members shall form a quorum.

15. Any Member of Council who desires to attend the meetings of any Sectional Committee, of which he is not at the time being a Member, shall have power to do so as *amicus curiæ* under the following conditions. Upon his expressing in writing to the Assistant Secretary his wish so to attend, the summons for each meeting of the Committee shall be sent to him as to an ordinary Member of the Committee during his tenure of office as Member of Council, or during such shorter time as he may name; but the Chairman of the Committee shall not be expected to correspond with him as with an ordinary Member of Committee. He may with the consent of the Chairman speak during the deliberations of the Committee, but shall give no vote.

16. It shall be in the power of the Council to add to the number of any Committee, if at any time it may seem to be desirable to do so.

(The following Standing Orders, 17—28, are the same for each Sectional Committee.)

17. The retirement of Members shall be determined by seniority.

18. The retiring Members of the Committee shall each year vacate office on the 31st of December, and shall not be eligible for election for the ensuing year.

19. Should, by reason of death or otherwise, a vacancy occur at any intermediate time, the Council shall appoint a person to fill the vacancy, and the retirement of the person so appointed shall be according to the rules which would have applied to the Member whose place he fills, provided that, if at the date of retirement the said person has not served more than one year, he shall be eligible for immediate re-appointment.

20. The appointment of the Fellows to serve as new Members of Committee shall be made by the Council in December, and the Members so appointed shall enter office upon the 1st of January ensuing.

21. The Committee shall, when necessary, meet in the apartments of the Society at some convenient hour on the second Thursday in each month from October to July, both included, or at such other times and places as the Chairman may determine.

22. The summonses for a meeting shall be issued by the Assistant Secretary at the direction of the Chairman.

23. The decisions arrived at by a meeting of a Committee at which the Members present do not form a quorum shall be valid, if subsequently agreed to in writing by not less than two-thirds of the whole Committee.

24. Voting shall be open, unless any Member of the Committee shall demand the ballot. The Chairman shall have a second or casting vote.

25. The Minutes of the Committee shall be duly recorded in a book kept for that purpose, and preserved in the apartments of the Society, or in the custody of the Chairman, together with such correspondence and documents relating to the business of the Committee as the Committee may think it desirable to preserve.

26. The Committee shall make to the Council, through its Chairman, who shall be provided by the Society with such clerky assistance as he may need, reports to the Council, answers to inquiries of the Council, and such suggestions as the Committee may think desirable. The minutes of the Committee shall be laid before the Council whenever the Council shall so demand.

27. When a Committee is of opinion that a paper referred to it might profitably serve as the basis of a discussion at a meeting of the Society, it shall forthwith report to that effect to the Council. If the matter seem urgent, the President and Officers shall have power, without waiting for a Meeting of the Council, to take immediate steps towards carrying out the recommendations of the Committee.

28. Should, at any time, a Committee be of opinion that it would be desirable to encourage a discussion at a meeting of the Society upon some subject, concerning which no paper suitable to serve as a basis for discussion is under its consideration, and have ascertained that some person is willing to prepare a suitable paper for that purpose, the Committee, having approved of the said paper, shall recommend it to the Council, to be treated as the basis of a discussion to be held at some convenient meeting.

III.

Relating to the Acceptance, Reading, and Publication of Papers.

29. Upon a communicated paper reaching the apartments of the Society, the Assistant Secretary shall mark on it the date of the

reception, shall record the reception in the book kept for that and other purposes relating to papers received, and shall report the reception to the one or the other of the two Secretaries, according to the nature of the communication.

30. The Secretary to whom the paper is thus reported shall, if he sees fit, of himself, or after consultation with the other Officers or with the Chairman of the appropriate Sectional Committee, direct the paper to be marked as "accepted for consideration," otherwise he shall refer the question of acceptance for consideration to the appropriate Chairman of Sectional Committee, who shall at a meeting of his Committee, or by correspondence with its Members, obtain the view of the Committee thereupon, and report the same to the Secretary, who shall act on the advice so given.

31. In the case of a paper not being accepted for consideration, the Fellow communicating the paper shall be informed thereof, but the paper itself shall remain the property of the Society, provided always that such Fellow may, with the consent of the Council, withdraw the said paper, upon the understanding expressed in writing that the paper is to be regarded as not having been communicated to the Society at all.

As to the 'Proceedings.'

32. In the case of a paper being accepted for consideration, the author shall be required to furnish, if he has not already done so, a short account of the main points of the paper, hereinafter called an "abstract," of such length and nature as shall be approved of by the Secretaries; provided that if the paper do not exceed in length about twelve pages of the 'Proceedings' (such a paper being hereinafter called a "short" paper), an abstract of it shall not be required.

33. In the case of a paper accepted for consideration, and of which when required an abstract has been furnished, the Secretaries shall proceed to make arrangements for the reading of the paper, and shall, if they think fit, of themselves, or after consultation with the Chairman of the appropriate Sectional Committee, mark the abstract or short paper as suitable for publication in the 'Proceedings'; otherwise they shall refer the question of publication of the abstract, or in the case of a short paper, of the paper itself, to the Chairman of the appropriate Sectional Committee, who shall, either at a meeting of the Committee, or by correspondence with its Members, obtain the view of the Committee thereupon, and report the same to the Secretaries, who shall act upon the advice so given.

34. In all cases where the Secretaries have, as regards the acceptance or reading of any paper, or the publication of any abstract or

paper, acted under Standing Order 30, or 33, of themselves, or after consultation with a Chairman of Committee only, the Committee itself not having been formally consulted in the matter, such action shall be reported to the Committee.

35. When a paper has been accepted for consideration, and appointed to be read, the author shall be informed of the meeting at which it is appointed to be read, and shall be supplied with a copy of Standing Order 2. In cases where the President or Secretaries, after consultation (if they see fit) with the appropriate Sectional Committee or its Chairman, are of opinion that at the meeting the author of the paper should be invited to make an oral statement, or that the abstract (or short paper) prepared for publication in the 'Proceedings' should be read, the author shall be informed of the fact, and be invited to be present.

36. Abstracts of papers, or short papers in full, which have been marked as suitable for publication in the 'Proceedings,' shall be set up in type without delay, and proofs submitted to authors for correction.

37. The 'Proceedings' of the Royal Society shall be published in numbers which shall be issued at as short intervals as may be found suitable, and shall contain :—

- i. In reference to each meeting, a record of the formal business conducted at the meeting, the titles of the papers read at the meeting, and such an account of other communications made at the meeting or of other proceedings, not of the nature of business or of discussions on the papers read, as the President and Officers may judge it desirable to insert.
- ii. Such abstracts of papers or such short papers ordered for publication in the 'Proceedings,' as may be ready to be published.
- iii. Such papers, not of the nature of short papers, or such other matter as the Council may, in special cases, order to be published in the 'Proceedings.'

38. The Secretaries shall take what means they may think proper to secure that the account given in the 'Proceedings' of any communication made at a meeting besides the papers read, or of anything which occurred and seemed worthy of being recorded, shall be accurate; and if, from anything which takes place at a meeting, they should have reason to think that the Sectional Committee might wish, in respect to any paper, to reconsider the recommendation that it should be published, they shall have power to postpone the publication of that abstract or paper, and refer the abstract or paper once more to the Sectional Committee.

39. The account given in the 'Proceedings' of a "Meeting for Discussion" shall contain the communication made for the purpose of

opening the discussion (Standing Order 7), as well as such contributions to the discussion received in writing previous to meeting (Standing Order 9) as the respective authors may desire to see so published, provided always that all such communications are subject to the General Standing Orders relating to the publication of papers in the 'Proceedings.' There shall be no report of the discussion itself.

As to the 'Philosophical Transactions.'

40. Every paper communicated to the Society, and accepted for consideration, shall be referred by the Secretaries to the appropriate Sectional Committee through the Chairman of that Committee, provided always that, for the better expedition of the business of the Society, the Secretaries, as provided above (Standing Orders 33 and 36), shall have power, in the case of short papers, to proceed with the reading and publication of a paper previous to its having been considered by a Committee. If the said Chairman is of opinion that the subject of the paper does not lie within the scope of his Committee, he shall report the same to the Secretaries, who shall refer the paper to some other Sectional Committee. Should the Secretaries be of opinion that a paper pertains by its subject to more than one Sectional Committee they shall take steps in order that the judgment of the several Committees concerned may be obtained. In the case of any difficulty as to the reference of a paper to its appropriate Sectional Committee or Committees, the Secretaries shall bring the matter before the Council.

41. The Chairman through whom the paper is referred shall bring the paper under the consideration of his Committee at the next regular meeting of the Committee, or at some earlier meeting which he may think it desirable to call, having in the meanwhile, if he and one or other of the Secretaries judge it desirable, submitted the paper to one or more Members of the Committee, or Fellows of the Society not Members of the Committee, whose opinion or opinions he shall report to the Committee.

The Sectional Committee, for its guidance in judging a paper so brought before it, shall obtain from at least two persons—who are knowing and well skilled in the particular branch of Natural Knowledge to which the said paper relates, and who may or may not be Members of the Committee, but, unless there be special reasons to the contrary, must be Fellows of the Society—acting as referees, opinions in writing upon the following points, viz. :—

- i. Whether the paper should or should not be published in the 'Philosophical Transactions' ;
- ii. Whether, in the former case, it should be published in full or in part only, the part so to be published being indicated ;

- iii. Whether any modifications are necessary or desirable, and, if so, of what nature;
- iv. Which illustrations (if any) accompanying the paper should be reproduced.

Having obtained and considered such written opinions, and having, if it see fit, consulted another Sectional Committee or others of the Sectional Committees, and having at a meeting (in accordance with Standing Orders 23, 24) decided upon the above points, it shall embody its decisions, together with any other recommendations which it may think fit to make in reference to the paper, in a Report to the Council, signed by the Chairman, to which Report shall be appended, for inspection by the Council, the written opinions of the Referees.

42. The Sectional Committee, in thus deciding upon a paper, shall be guided by the principle that such a paper only should be recommended for the 'Philosophical Transactions' as appears to mark a distinct step in the advancement of Natural Knowledge.

43. If the Council approves of the Report of the Sectional Committee, the Secretaries shall immediately take action with regard to the publication of the paper, in accordance with the Report. If the Council does not approve of the report of the Sectional Committee, it shall request the Sectional Committee to reconsider its recommendations, and shall not come to a decision until it has received the further report of the Sectional Committee. But, for the better expedition of the business of the Society, the Secretaries, in such cases as they judge fit, shall have power to take steps with regard to the publication of a paper in the 'Philosophical Transactions,' in accordance with the decision of a Sectional Committee, previous to that decision having been brought before the Council; and they shall also have power, in cases in which they and the Chairman of the appropriate Sectional Committee agree in thinking it desirable, to take such steps as they may think fit with regard to the publication of a paper in the 'Philosophical Transactions,' previous to a formal decision of the said Committee upon the paper having been taken.

44. In the case of the Chairman of a Sectional Committee being the author of a paper referred to that Committee, the Secretaries shall have power, in consultation with some member or members of the Committee, other than the Chairman, to take the same action as under the foregoing Standing Orders they are empowered to take in consultation with the Chairman.

45. Each paper ordered for publication in the 'Philosophical Transactions' by the Council shall be published separately in paper covers, the date at which it is issued being marked on the cover, and shall be sold separately.

46. The several papers shall also be issued bound in two series—A, containing those papers which are of a mathematical or physical character, and B, containing those of a biological character—at intervals, so far as possible regular, and of not too great a length; no paper being kept back more than six months from the date of its publication as a separate paper.

47. In the case of communications received in the Christmas, the Easter, or the Midsummer recess, the Secretaries shall have power, with the approval of the Chairman or Chairmen of the appropriate Sectional Committee or Committees, to issue a number or numbers of the 'Proceedings' containing such communications, without waiting for their being read at a meeting of the Society.

48. When the Council or the Society has appointed a person, or two or more persons acting as Committee, to carry out a particular inquiry, and the person or Committee has presented a report giving an account of such inquiry, the Council, having consulted the appropriate Sectional Committee or Committees in the usual way as in the case of a paper presented, shall direct the report, if deemed worthy of publication, to be published either in the 'Proceedings,' as a separate number if this should seem convenient, or in the 'Transactions,' according as the one or the other may seem the more suitable for the purpose.

49. A Year-book of the Society shall be published annually, so soon after the Anniversary Meeting as shall be convenient.

IV.

RELATING TO THE COMMITTEE OF PAPERS.

50. The Minutes of the Council sitting as Committee of Papers shall be kept separately from the ordinary Minutes of Council.

51. At each meeting of the Committee, the Secretary shall lay before the Committee a statement of the papers under consideration, showing briefly in the case of each paper the action which has been taken in regard to it, and the recommendations which may have been made concerning it by a Sectional Committee, together with, in the case of a paper recommended for publication in the 'Philosophical Transactions,' an approximate estimate of the cost of publication. Such a statement, or so much of it as is possible, shall be printed and distributed to the Members of the Committee previous to the meeting.

52. At each Meeting of the Committee the written decisions of the Sectional Committees, and the reports of referees, which may have been made in respect to papers mentioned in the Statement, shall be laid upon the table.

53. The Committee may, if it see fit, adopt *en bloc* all the recommendations contained in a Statement, provided always that if any Member of the Committee, either personally or, if absent, by writing, object to any particular recommendation or recommendations, such recommendation or recommendations shall be considered separately, the remainder being treated *en bloc*.

54. The decisions of the Committee on all questions before it shall be by the majority of those present and voting, the voting being open unless any member demand a ballot, in which case the voting shall be by ballot.

EXPLANATORY NOTES ON THE PROCEDURE RELATING TO THE READING AND PUBLICATION OF PAPERS.

1. No paper is received by the Society unless it be communicated by a Fellow. A Fellow, in communicating a paper, is required by Statute to ascertain that the paper is a fit and proper one to be communicated; he should satisfy himself not only that the paper is by its nature so fit, but also that it has not previously been published elsewhere.

A Fellow, in communicating a paper, should state whether he (or the author) desires that it should be published in the 'Proceedings' or in the 'Transactions.' In the former case, the Fellow communicating should see that the paper does not exceed in length about twelve pages of 'Proceedings,' and is not accompanied by elaborate illustrations; in the latter case, a short abstract of the main points of the communication must accompany the full paper. Since the MS. of a communication received and read, but not published by the Society, is retained in the possession of the Society,* an author is recommended not to send in the sole copy of his MS.; and it is advisable that the copy sent to the Society should be type-written, and, if possible, on a foolscap page.

It will be also convenient if, at the time of sending in the paper, the Assistant Secretary is informed what days of meeting will best suit the author for the reading, supposing it be decided that the paper should be read, and whether he wishes to be present, and whether he is prepared to illustrate the reading of the paper by experiments, projection slides, diagrams, &c. The Society cannot, however, undertake always to fix the reading of the paper on the day or even one of the days proposed by the author.

* While retaining a MS. not ordered for publication, the Council are generally willing to return to the author drawings, &c., illustrating the paper.

2. When a communication has been "received," the first decision taken with regard to it is whether it should be "accepted for consideration." (Standing Order 30.)

If it be not accepted for consideration, the Fellow communicating the paper is informed of this, and he may, under certain conditions, withdraw the paper. (Standing Order 31.)

3. If it be accepted, the next decision relates to the reading of the paper.

According to the nature of the paper, and according to circumstances, the reading may consist of the title only being read by one of the Secretaries, or the paper may be read in whole or in part by one of the Secretaries, or the author may be invited to give an oral exposition of the contents of his paper, with such experimental or other illustrations as he may desire.

A decision having been come to as to the date of the reading, this will be communicated to the author, who, according to the decision taken, will be invited to be present, and may be requested to give an oral exposition.

4. When a paper has been judged suitable for publication in the 'Proceedings,' it is without delay set up in type, so that, if possible, printed copies may be in the hands of Fellows at the meeting at which the paper is read. A proof of the paper is sent to the author with the request that he will revise the proof as carefully as possible, and return it to the Assistant Secretary as soon as possible.

It may be found desirable to set up in type and even distribute at a meeting a paper which has been marked for reading, but about the publication of which no decision has as yet been come to. Hence, receipt of the proof must not be considered by the author as an indication that the paper will certainly be published.

5. If the author, in revising the proof thus sent to him, be led to make other than verbal or unimportant corrections, or to make additions, he must, in view of the publication of the paper, carefully date all such important corrections or additions. Any such corrections or additions introduced into any subsequent revise of the paper must be similarly dated.

A paper, when published, bears on it the date of reception of the MS.; this may be used in claims of priority, and the rule just given about dating corrections and additions is intended to prevent the author claiming the date of the reception of the MS. for important statements introduced into the paper after that date.

6. An author can, if time permits, receive, on application to the Assistant Secretary, any reasonable number of copies of the proof of his paper, corrected so far as is possible, in order that if he so wishes he may send, before the meeting at which the paper is read, copies of

the proof to persons likely to take part in any discussion which may follow the reading of the paper. The Society leaves to the individual author the responsibility of thus making known the results of his labours before the account of those results is formally read; so far as the Society itself is concerned, a paper communicated to it is regarded as private until it has been read.

7. When a paper has been ordered for publication in the 'Proceedings' and read, it is desirable to avoid everything which would delay its publication. Hence an author should correct the first proof of his paper so carefully that he does not need to see a second proof or revise. It will frequently, however, be found desirable for the author to see such a revise after the paper has been read. It is most important that the corrections then made should be final, and should be made without delay. A demand for still another revise, or any delay in returning that revise, is nearly sure to prevent the paper appearing in the particular number of the 'Proceedings' which gives an account of the meeting at which the paper was read.

8. Editors of periodicals are often anxious to obtain copies of the papers read before the Society, in order that they may publish them, in whole or in part, in their own periodicals, without waiting for the appearance of the papers in the 'Proceedings' of the Society. The Society offers no objection to this practice, provided that the copy sent to the periodical is identical with the paper as it will appear in the 'Proceedings.' For this reason the Society keeps the distribution of such copies in its own hands, and does not entrust it to the authors. Otherwise, the Society would have no guarantee against the following accidents, which, indeed, previous to the present arrangements having been made, did actually occur. If it were left to the author, he might send to a periodical an early proof of a paper which, before it was ordered for publication, needed large amendment, so that the paper, as it appeared in the said periodical, might differ widely from the paper as it appeared in the 'Proceedings.' Again, since a paper ordered for reading is, for the convenience of Fellows attending the meeting at which the paper is read, usually set up in type without delay, and may be, indeed often is, so set up before it has been decided to publish the paper, it might happen (and, indeed, has happened) that an author sent to a periodical a copy of a paper as if it were about to appear in the 'Proceedings,' and yet that paper never so appeared. To avoid such undesirable occurrences, the following practice has been adopted. With the proofs of his paper the author receives a form to fill up, stating to what periodicals he wishes separate copies of his paper, *so soon as it is finally passed for press*, to be sent, and the Society distributes the copies according

to the list returned. The form sent to the author contains the titles of several periodicals to which separate copies will be sent on his returning the form with his signature attached. The author can modify the list as he wishes, striking out from or adding to it.

9. When a paper is printed off for the 'Proceedings' the author is entitled to receive gratis 100 separate copies; he can have 150 additional separate copies at cost price.

10. One object of the regulations just described is to enable the Secretaries to publish as quickly as possible the papers (including abstracts) ordered for publication in the 'Proceedings,' and, save in special cases, the deliberations necessary for ordering these to be published do not take a long time.

Any decision as to publishing a paper in the 'Philosophical Transactions' necessarily takes a longer time, since the responsibility of this rests with the Sectional Committee or Committees and the Council, no such freedom of action being given to the Secretaries and Chairmen of Committees as is given in the case of papers published in the 'Proceedings.' The author, however, may greatly help to shorten the interval between the reception of a paper and its publication in the 'Philosophical Transactions' by attending to the following matters:—

(1) The MS. should be, if possible, type-written, or at least written in a legible hand, and *properly prepared as copy for press*, so that the subsequent corrections in spelling, grammar, construction of sentences, references, &c., may be as few as possible.

(2) When the paper is accompanied by illustrations, these should be sent in *ready for reproduction*. Figures, for instance, for which a "process" can be used, should be supplied in a condition in which the process may be directly applied; figures intended to be lithographed should be properly arranged as Plates of the proper size, and so on.

(3) When the author is requested to make changes or additions to his paper before it is published, these should be made without delay; the tardy appearance of papers in the 'Philosophical Transactions' has often been due to delay of this kind on the part of the author.

PROCEDURE IN THE NOMINATION OF THE COUNCIL.*

1. The subject of the new Council shall be taken into consideration at a Meeting of Council to be held on the last Thursday of October; and with the summons for that Meeting there shall be transmitted a

* From Minutes of Council, June 20, 1872.

list of the Members of the existing Council, with the number of their attendances at Meetings up to that date; also a List of the Fellows of the Society, with an indication of those who have at any time served on the Council, and the dates of their service.

2. At this Meeting the names of those Members of the existing Council who retire at the ensuing Anniversary shall be determined. Thereafter each Member present shall hand to one of the Secretaries a List of not exceeding ten Fellows whom he proposes for the new Council, of whom five shall not have already served on the Council. Members not able to be present may send in similar lists previous to the Meeting. The several lists of names so proposed shall then be read out by the Secretary.

3. Before the next following Meeting, the President and Officers shall prepare a list of twenty-one names for consideration by the Council, which list shall include ten names selected from those proposed at the previous Meeting, or other names, if required to make up that number. The list so prepared, together with a statement of the names proposed, and the number of votes given for each, shall be sent out confidentially with the summons for the ensuing Meeting, at which Meeting the names to be finally recommended shall be balloted for. In taking the ballot, a copy of the list, prepared by the Officers, shall, with such alterations as he may see fit to make therein, be delivered by each Member of the Council present and voting, and the names found to have the majority of votes shall form the list to be recommended to the Society.

4. The President and Council shall then nominate by ballot, out of the proposed Council, the persons whom they recommend to the Society for election to the offices of President, Treasurer, Principal Secretaries, and Foreign Secretary, for the ensuing year.

PROCEDURE OF THE COUNCIL IN THE NOMINATION OF FOREIGN MEMBERS.

(Statutes, Cap. I, Statutes XX—XXII.)

XX. "A book shall be kept in which Fellows of the Society may enter the names of those men of science whom they suggest as Foreign Members; each entry shall be signed by the proposer, and be accompanied by a statement of the principal grounds on which the suggestion is made, and shall be valid for three years only.

XXI. "When vacancies are to be filled up, a list of the persons so entered shall be sent to each member of the Council, together

with notice of the Meeting at which the list will be considered. At the Meeting thus appointed further entries may be made, and the claims of those men of science whose names have been duly entered in the book shall be considered, and a selection of names shall be made, from among which the Council, at a subsequent Meeting to be then appointed, may make nominations to the Society.

XXII. "At the second Meeting the selection of the Candidates to be nominated shall be by ballot; when, if two-thirds of the Members of the Council present be in favour of the nomination of any Candidate, his name shall be proposed at the next Ordinary Meeting of the Society, and shall be put to the vote by ballot at the following Ordinary Meeting."

PROCEDURE OF THE COUNCIL IN THE ADJUDICATION OF THE MEDALS.

1. At the first Meeting on the subject of the Medals, the Members of Council are invited to *suggest* a name, or names, which they may deem worthy of consideration in the adjudication of each of the several Medals. The list of suggested names then formed to be entered on the Minutes, with power to Members of Council to add to it afterwards, if they see fit.

2. At a subsequent Meeting (or Meetings), to be held before the Midsummer Recess (at which additions may be made to the List of suggestions), every Member of the Council present is at liberty to *propose* for each Medal the name of a person whom he recommends to be selected to receive it, specifying the particular work or works which form the ground of his recommendation; and these proposals, being seconded, shall be entered on the Minutes. At the same time the proposer is expected to deposit with one of the Secretaries a detailed statement of the claims of the person recommended by him, for consultation by Members of the Council, should they so desire.

3. The Council to be summoned on the last Thursday of October, for the purpose of discussing the merits, as regards the award of the Medals of the persons severally proposed. Additional proposals may be made at this Meeting, if assented to by two-thirds of the Members present.

4. The Council to meet for further consideration of the proposals on the first Thursday in November; the awards to be decided either on that day or at an early adjourned Meeting.

CONDITIONS OF AWARD OF THE ROYAL SOCIETY'S MEDALS.

THE COPLEY MEDAL

is awarded to the living author of such philosophical research, either published or communicated to the Society, as may appear to the Council to be deserving of that honour. The subject or subjects of research, on account of which the medal is awarded, must be specified in making the award.

No limitation is imposed either as to the period of time within which that research was made, or to the particular country to which its author may belong.

The medal may not be awarded to any person who is a Member of the Council at the time when the award is made.

The medal may be given more than once to the same person if the Council deem it expedient.

The medal is, as far as circumstances admit, awarded annually.

THE RUMFORD MEDAL,

consisting of a gold medal with a silver copy struck in the same die, is awarded once every second year "to the author of the most important discovery or useful improvement which shall be made and published by printing or in any way made known to the public in any part of Europe during the preceding two years on Heat or on Light, the preference always being given to such discoveries as, in the opinion of the President and Council of the Royal Society, tend most to promote the good of mankind.

"If during any term of years from the last award no new discovery or improvement shall have been made in any part of Europe relative to Light or Heat, in the opinion of the President and Council of sufficient importance to deserve the award, it may not be given, but the value of it may be reserved, and being laid out in the purchase of additional stock may augment the capital; and the interest of the same, by which the capital may from time to time be so augmented, may be given in money" at a subsequent award with the medal.

THE ROYAL MEDALS,

consisting each of a gold medal with a silver copy struck in the same die, are awarded annually by the Sovereign upon the recommendation of the Council, for the two most important contributions to the advancement of Natural Knowledge, published originally in His Majesty's dominions within a period of not more than ten years, and of not less than one year of the date of the award.

In the award of the Royal Medals one is given in each year to each of the two great divisions of Natural Knowledge.

THE DAVY MEDAL

is awarded annually for the most important discovery in Chemistry made in Europe or Anglo-America.

THE DARWIN MEDAL,

which is accompanied by a grant of £100, is given biennially in reward of work of acknowledged distinction (especially in Biology) in the field in which Mr. Darwin himself laboured. The award may be made either to a British subject or a foreigner, and without distinction of sex.

THE BUCHANAN MEDAL,

which is accompanied by a grant of the balance of the Buchanan Medal Fund which may have accumulated since the last award, is awarded every five years in respect of distinguished services to Hygienic Science or Practice in the direction either of original research or of professional, administrative, or constructive work, without limit of nationality or sex.

THE SYLVESTER MEDAL,

which is accompanied by a grant of the balance of the income of the Sylvester Medal Fund, is awarded triennially for the encouragement of Mathematical Research, irrespective of nationality.

HUGHES MEDAL.

A Gold Medal, bearing a bust of the late Professor D. E. Hughes, is awarded annually, together with the balance of the income of the Fund, to such person as the President and Council may consider the most worthy recipient, without restriction of sex or nationality, as the reward of original discovery in the Physical Sciences, particularly electricity and magnetism or their applications, such discovery or applications having been published not less than one year before the award. If in any year the Council do not see fit to award the medal, owing to no one being deemed sufficiently worthy of it, the income for that year is invested and added to the principal of the Fund.

THE MACKINNON RESEARCH STUDENTSHIPS.

Under the will of the late Sir William Mackinnon the Society has received a bequest to be applied to the foundation and endowment of prizes or scholarships for the purpose of "furthering Natural and Physical Science, including Geology and Astronomy, and of furthering original research and investigation in Pathology," and the following regulations have been drawn up for the administration of the Trust:—

1. Two Studentships, each of the present value of £150 per annum, shall be established under the name of "The Mackinnon Research Studentships."

2. The Awards shall be made by the Council of the Royal Society on the recommendation of a Committee to be appointed by the Council.

3. Each Studentship shall, in every case, be awarded for one year, but, on the recommendation of the Committee, after consideration of a report from the student upon his first year's work, may be awarded to him for a second year. Under exceptional circumstances a Studentship may be renewed for a third year.

4. The Studentships shall be awarded, so far as possible, for investigations in the two main divisions of Science respectively, these divisions corresponding to the two series (A and B) of the 'Philosophical Transactions,' but not including Mathematics.*

5. Applications for the Studentship shall be invited by public advertisement.

6. Candidates shall be required to state whether they hold other endowments, and the Committee shall have power to make inquiry into and take into account the other resources of the candidates.

7. Each candidate shall be required to state the nature of the research in which he proposes to engage. The research for which a Studentship is awarded shall be carried out only at a place approved by the Council, but the student shall not be allowed to carry on other work without the approval of the Council.

8. The Award shall be made always before the end of the Summer term.

9. In the event of a Studentship not being awarded, or from any cause lapsing before the expiry of the term for which it is granted, the unexpended income of the fund shall be invested so as to be available for extraordinary expenditure in furtherance of the general objects of the Bequest.

10. The Studentship shall be restricted to British subjects.
29 January, 1903.

* The following subjects are included in the two main divisions of Science respectively:—

A.		B.	
Astronomy.	Mineralogy.	Anatomy.	Pathology.
Chemistry.	Physics.	Botany.	Physiology.
Geology.		Palæontology.	Zoology.

REGULATIONS FOR ADMINISTERING THE GUNNING FUND.

A statement of the foundation will be found in the Account of the Society's Trusts, in the 'Record.' The regulations for its administration, proposed by the Council, March 14, 1895, and adopted by the Founder, May 16, 1895, are here subjoined.

REGULATIONS.

1. That the Fund should not be applied in the form of a prize, medal, or reward, but should be devoted to the furtherance of knowledge in some special direction.
2. That, by preference, the interest accruing from the Fund during every three years be applied for the promotion of Physical Science and of Biology alternately.
3. That aid should, by preference, thus be given in Physical Science and Biology respectively, either to investigations or operations which require to be repeated from time to time, or to the development of some specified continued line of research.

In illustration of Regulation 3, the Council suggested as follows:—
"Among subjects that would thus seem fitting for the application of the Fund, the following might be given as instances:—The renewal from time to time of magnetic observations in the British Isles; the compilation and publication, at intervals, of detailed lists of well-authenticated spectra; systematic determination of biological data in special regions or under special conditions; assistance to naturalists or others carrying on explorations or special investigations in foreign countries; continued bacteriological observations, similar to those carried out under the direction of the Water Research Committee and others."

REGULATIONS FOR ADMINISTERING THE JOULE FUND.

(Council Minutes, March 14, 1893.)

1. That the proceeds be applied in the form of a Studentship or Grant, to be awarded every other year, to assist Research, especially among younger men, in those branches of Physical Science more immediately connected with Joule's work.
2. That this Grant be International in its character, and awarded alternately in Great Britain and abroad, or in such order as the President and Council shall from time to time decide.
3. That it be awarded in Great Britain by the President and Council of the Royal Society; and, for award in France, offered to the "Académie des Sciences," Paris; and in Germany, to the

"K. Akademie der Wissenschaften," Berlin; or, in any other country, to the leading scientific institution, for award in that country.

4. That the award in Great Britain be made on the recommendation of a Committee, from time to time appointed by the President and Council of the Royal Society, but not of necessity confined to Fellows of the Society.

REGULATIONS FOR THE ADMINISTRATION OF THE GOVERNMENT PUBLICATION GRANT.

(*Council Minutes, June 15, 1899. Amended November 7, 1901.*)

The following regulations for the administration of the Publication Grant from H.M. Treasury have been adopted by the Council :—

I. The allotment of the Grant shall be made by the President and Council.

II. In allotting the Grant, the President and Council shall "assist not merely their own publications, but also the adequate publication of scientific matter through other channels and in other ways."

III. In making allotments for the purpose of assisting the adequate publication of scientific matter other than the Society's own publications—

1. The President and Council shall consider—

(i.) Proposals made by Members of the Council.

(ii.) Applications made by other Scientific Societies through the usual official channels.

2. Proposals made by Members of the Council may be so made at any meeting of the Council, and applications by other scientific societies shall be reported by the Secretaries to the Council at the first Council Meeting after they have been received; but unless the Council, on grounds of urgency, shall otherwise order, no proposal or application shall be taken into consideration except at the meetings of the Council held in January and July, and no allotment shall be finally decided upon at the first of the said meetings if the decision can conveniently be postponed to the second of the said meetings.

3. Original memoirs shall be considered as having a first claim on the Grant, the aid being given towards the expense either of illustrations or of press-work; but the President and Council shall have power, if they see fit, to make an allotment in aid of other publications which tend to the advancement of natural knowledge, such as reports, abstracts, &c.

4. No decision of the President and Council at any one meeting of the Council, to allot a portion of the Grant, shall be valid unless

it receives the support of three-fourths of the members present and voting; but the decision of a simple majority at any one meeting shall be made valid if confirmed by a majority at a subsequent meeting.

IV. The balance of the Grant remaining over at the close of the financial year, after deducting the amounts allotted under Section III, shall be placed to the credit of the General Funds of the Society, to assist in the production of the Society's own publications, unless the President and Council shall otherwise order.

REGULATIONS FOR ADMINISTERING THE SCIENTIFIC RELIEF FUND.*

The history of the Scientific Relief Fund will be found in the account of the Society's Trusts contained in the "Record." The following are the Regulations at present in force:—

REGULATIONS.

1. There shall be a fund called The Scientific Relief Fund, and the object of it shall be to aid such scientific men, or their families, as may from time to time require assistance.
2. All contributions to the fund shall be invested in the name of the Royal Society in such funds as are authorised for investment by Trustees; and in such manner as to form a separate account from that of the Society's other funded property.
3. The fund shall be administered by a Committee, called The Scientific Relief Committee, which shall consist of ten Fellows of the Royal Society, and it shall be the duty of such Committee to select the recipients on whose behalf the income derived from the fund may be properly applied—always reporting thereon to the Council for confirmation.
4. The capital of the Fund shall remain entire, and the interest only shall be at the disposal of the Committee.
5. If the whole of the interest shall not be expended in one year, the surplus shall be carried to the next year's account; and, if at any time any surplus in excess of the ordinary income of the year last past shall thus accrue, the Council shall cause the whole, or part of it, to be added to the capital sum already

* Mainly codified from the Original Regulations adopted by the Council Nov. 3, 1859 (see also Minutes of May 26, 1859), and subsequent modifications passed by the Council on Dec. 22, 1859, Jan. 18, 1866, April 30, 1891, Jan. 19, 1893, April 30, 1896, Nov. 5, 1896.

invested; or, should they think fit, may cause any accumulated interest to be invested as unexpended income, the securities purchased being liable from time to time to be realised, and the proceeds expended as income.

6. No application for relief shall be entertained except on the recommendation of the President of one of the following Scientific Societies:—The Chemical, Entomological, Geological, Linnean, London Mathematical, Physical, Royal, Royal Astronomical, Royal Geographical, Royal Meteorological, Royal Irish Academy, Royal Society of Edinburgh, Society of Antiquaries, or Zoological Society; it being understood that the several Presidents will consult their respective Councils as to the persons whom they intend to recommend for relief.
7. The members of the Committee shall be appointed by the Council, and shall consist of ten members, each of whom shall serve for five years, so that two retire annually, and be not eligible for re-appointment on the occasion of their retiring. Should a vacancy occur by reason of death or otherwise, at any intermediate time, the Council shall appoint a person to fill the vacancy, and the person so appointed shall retire at the time the member whose place he fills would have retired had he continued until then to be a member, but if he have not served more than two years, shall be eligible for re-appointment.
8. The Council shall annually appoint a member of the Committee to act as Chairman for the ensuing year. The Chairman shall have power to nominate one of the Committee to act as his deputy.
9. The Chairman, or his deputy, shall have power to summon a meeting of the Committee at his discretion, and shall fix the time of such meeting.
10. Three of the Committee shall form a quorum.
11. The Treasurer of the Society shall have power, on the requisition of the Chairman of the Committee, or of his deputy, made in pursuance of a resolution of the Committee, but subject, nevertheless, to the provisions of Regulation 12, to make payments out of the Scientific Relief Fund not exceeding £100 in any one case, reporting such action to the Council at its next meeting.
12. The Chairman, or his deputy, shall, notwithstanding Regulation 6, have power to act in urgent cases during vacations of the Society, after consultation with one of the Secretaries of the Society, without calling the Committee together. In such cases the Chairman shall, after the vacation, summon a meeting of the Committee and report his action.

In the first Report of the Committee, dated November 30, 1864, it is stated that "It formed no part of the scheme to attempt the grant of annuities; it was rather intended to afford *prompt* relief of the immediate wants of those upon whom sudden affliction had fallen; although at the same time, it in no way debarred a continuation of such relief being given should the funds admit thereof." This intention of the founders, although it has not been embodied in a Regulation, has been continued, as a policy, to the present time.

Applicants are desired to fill in a form which can be obtained from the Assistant Secretary of the Royal Society, in which (confidential) information is requested upon the following points:—

1. Name, Age, and Social Condition.
2. Nature of Claims, stating scientific work done by the subject of the proposed grant, or by the member of his family on whose scientific claim he relies, appending a list of his principal contributions to science.
3. The nature of the emergency, and how it has arisen.
4. Whether the applicant is receiving, or has received, during the past six months, pecuniary aid from any other source.
5. Whether the applicant is entitled or able, in the circumstances which have arisen, to look to any other assistance; and, if so, what is the source and extent of such expected assistance.
6. Particulars of—
 - Number in family.
 - How many are self-supporting.
 - How many are partially dependent.
 - How many are wholly dependent.
7. Are the circumstances of the self-supporting members of the family such as to enable them to render assistance in the case.

In 1886 Sir William (afterwards Lord) Armstrong gave a sum of £7,800 to the Scientific Relief Fund, on the understanding that the said fund should be used for remission of fees in cases of urgent necessity. By a Resolution of Council passed December 10, 1889, "the question of the remission of fees to Fellows of the Society in impecunious circumstances is reserved for the sole consideration of the President and Council of the Society, the amount thus from time to time bestowed being communicated to the Scientific Relief Committee."

NATIONAL PHYSICAL LABORATORY.

SCHEME OF ORGANIZATION.

1. The name of the Institution shall be the National Physical Laboratory. The Kew Observatory shall be incorporated therewith.

2. The ultimate control of the Institution shall be vested in the President and Council of the Royal Society, who in the exercise thereof may from time to time issue such directions as they may think fit to the General Board and Executive Committee hereinafter described. The President of the Royal Society shall be the Chairman of the Governing Body as hereinafter defined. The income and all other property of the Institution shall be vested in the Royal Society for the purposes of the Institution.

3. For the present, and until otherwise ordered by the President and Council of the Royal Society, with the approval of H.M. Treasury, there shall be a Governing Body for the Institution, consisting of a General Board and an Executive Committee, the constitution and duties of which shall be as hereinafter defined. Provided always that the Permanent Secretary of H.M. Board of Trade shall be *ex officio* a member of the Governing Body, and that the choice of members of the Governing Body, or of any Committee thereof, shall not be confined to Fellows of the Royal Society.

4. The General Board shall consist of the President, Treasurer, and Secretaries of the Royal Society, the Vice-Chairman of the Board (appointed as defined below by the President and Council of the Royal Society), the Permanent Secretary of the Board of Trade, and of thirty-six ordinary members.

Twenty-four of the ordinary members shall be appointed by the President and Council of the Royal Society; of the remaining twelve ordinary members, two shall be nominated for appointment by the Council of each of the following Institutions, as being fitted to represent commercial interests in connection with the Laboratory:—

The Institution of Civil Engineers.

The Institution of Mechanical Engineers.

The Institution of Electrical Engineers.

The Iron and Steel Institute.

The Institution of Naval Architects.

The Society of Chemical Industry.

In the selection of ordinary members of the General Board care shall be taken that Scotland and Ireland are represented.

Any person not being already a member of the General Board who shall become a member of the Executive Committee, shall be a member of that Board during his tenure of office on the Executive Committee, but shall be regarded as an additional, and not as an ordinary, member of the Board.

5. The Executive Committee shall consist of the President, Treasurer, and one of the Secretaries of the Royal Society; the Vice-Chairman of the Executive Committee (appointed as defined below); the Permanent Secretary of the Board of Trade; six persons appointed by the President and Council of the Royal Society from among those who are members of the Kew Observatory Committee at the time when the Kew Observatory is incorporated in the National Physical Laboratory (two of these six persons shall retire at the end of every two years, and vacancies occurring amongst them by retirement or otherwise shall not be filled up); and of twelve ordinary members.

The ordinary members shall be nominated by the President and Council of the Royal Society, but one-half shall be chosen from among those members of the General Board who have been nominated as fitted to represent commercial interests on that Board.

Those members of the Executive Committee who are Fellows of the Royal Society, shall be appointed by the President and Council to be the Gassiot Committee of the Royal Society.

6. The Vice-Chairman of the General Board shall be appointed by the President and Council of the Royal Society, and shall also be Vice-Chairman of the Executive Committee. He shall hold office for six years, and shall be eligible for re-appointment, but shall not hold office for more than twelve years.

7. At least one-sixth of the ordinary members of the General Board and of the Executive Committee shall retire annually.

In the case of the General Board, the retiring ordinary members shall be selected by seniority, four being selected from the members nominated by the President and Council of the Royal Society, and two from the members nominated by the Technical Societies named in the scheme.

In the case of the Executive Committee, the retiring ordinary members shall be selected by seniority, one being selected from the members nominated by the President and Council of the Royal Society, and one from the members nominated by the Technical Societies named in the scheme.

No retiring member of the General Board or of the Executive Committee shall be eligible for re-appointment until at least one year has elapsed from the date of his retirement.*

The President and Council shall have power to remove from the General Board and from the Executive Committee any member of either whom they may judge to be disqualified.

Vacancies on the General Board or on the Executive Committee due to death, resignation, or removal by the President and Council of the Royal Society, shall be filled by the President and Council of the Royal Society, provided always that—

- (1) Any person so appointed shall, for the purposes of the regulations for retirement from the Board or Committee, be regarded at the time of his appointment as having served for the same period as the member to whose place he succeeds.
- (2) If the vacancy on the General Board be caused by one of the persons nominated as fitted to represent commercial interests ceasing to be a member of the Board, the President and Council of the Royal Society shall choose his successor from among a list of names recommended by the Councils of the Institutions named in Section 4.
- (3) If a vacancy on the Executive Committee be caused by one of the persons nominated as fitted to represent commercial interests ceasing to be a member of the Committee, his successor shall either be selected from among those members of the General Board who were nominated as fitted to represent commercial interests, or shall be nominated by the President and Council of the Royal Society after consultation with the Councils of the Institutions named in Section 4.

The President and Council of the Royal Society shall determine the order of the seniority of the members of the first General Board and of the first Executive Committee for the purposes of the regulations for retirement.

The Executive Committee.

8. The Executive Committee shall have the immediate management of the National Physical Laboratory; shall appoint and dismiss the officials, except the Director; and shall determine the nature of the work to be undertaken from time to time.

* The following addition to this paragraph, proposed by the Royal Society, has been sanctioned by H.M. Government:—

“ Unless, in the opinion of the President and Council of the Royal Society, there are special reasons in the case of any retiring member for his services being retained.”

The General Board.

9. A meeting of the General Board shall be held in March, at which the Executive Committee shall present a report on the work and finances of the National Physical Laboratory during the year ending on the preceding December 31. Copies of this report shall be circulated among the members of the General Board at least one week before the meeting, and after the meeting shall be forwarded to the President and Council of the Royal Society, together with any further report, resolutions, or recommendations which may be added by the General Board.

The Executive Committee shall also lay before the General Board at its meeting in March a statement as to the work which it is proposed to undertake in the Laboratory during the ensuing year. This statement shall be circulated among members of the Board at least a week before the meeting; and the General Board may make such recommendations relative to the statement, or to the future work of the National Physical Laboratory, as they may think fit.

These recommendations shall be laid before the Executive Committee for their consideration.

Sub-Committees.

10. The Executive Committee may from time to time appoint Sub-Committees, of which the members shall not necessarily be members of the Executive Committee or of the General Board, either to superintend or to assist in certain specified investigations, or to superintend some department of the National Physical Laboratory.

The Director.

11. The Director of the National Physical Laboratory shall be appointed by the President and Council of the Royal Society after consultation with the Executive Committee, on such terms as the President and Council may determine, and shall be removable by the President and Council. He shall be responsible to, and shall take instructions from, the Executive Committee, but, subject to such instructions, he shall have the sole direction and control of the officials of the National Physical Laboratory and of the work done within it.

The Executive Committee may delegate its power of appointing and dismissing the officials of the Institution to the Director in such cases as it may think fit.

The Director shall neither be allowed nor be called upon to undertake work not connected with the National Physical Laboratory, except with the consent of the Executive Committee.

Finance.

12. The Royal Society shall open a banking account, to be called "The National Physical Laboratory Account of the Royal Society," into which all sums received by the Executive Committee for the purposes of the Institution shall be paid. The Treasurer of the Royal Society shall also pay into this account all sums received by him for the said purposes, after deducting therefrom such amounts as he shall be directed by the President and Council, with the approval of the Treasury, to retain for the purpose of defraying any expenses which the Royal Society may incur in the exercise of its control of the Institution.

The Executive Committee shall be empowered to draw on this account for the purposes of the Institution by cheques signed by such members of the Executive Committee as may be authorised by the Committee to do so.

Legal Proceedings.

13. Any legal proceedings with regard to the affairs of the Institution, which it may become necessary to institute or defend, shall be instituted or defended by the Solicitors of the Royal Society, in the name and on behalf of the Royal Society upon the instructions of the Executive Committee, but no such proceedings shall be instituted or defended without the order of the President and Council of the Royal Society.

The Kew Observatory Committee of the Royal Society.

"The Kew Observatory Committee of the Royal Society," incorporated under the Companies Act, 1867, shall be wound up; and the property thereof shall be held by the Royal Society for the purposes of the Institution.

GENERAL BOARD OF THE NATIONAL PHYSICAL LABORATORY.

Retires
December

Ex-Officio
Members.

- The President of the Royal Society.
1912 The Vice-Chairman of the Board (Lord Rayleigh, F.R.S.).
The Treasurer of the Royal Society.
The Secretaries of the Royal Society.
The Permanent Secretary of the Board of Trade.

Retires
December

1907 Sir A. W. Rücker, F.R.S.
1907 Mr. C. V. Boys, F.R.S.
1907 Sir J. W. Swan, F.R.S.
1907 Prof. H. L. Callendar, F.R.S.
1908 Prof. W. G. Adams, F.R.S.
1908 Prof. A. Gray, F.R.S.
1908 Prof. W. M. Hicks, F.R.S.
1908 Rear-Admiral Sir H. B. Jackson, F.R.S.
1909 Mr. G. T. Beilby
1909 Mr. H. F. Donaldson
1909 Prof. J. A. Fleming, F.R.S.
1909 Sir A. Noble, F.R.S.
1910 Sir W. de W. Abney, F.R.S.
1910 Sir Benjamin Baker, F.R.S.
1910 Mr. Leslie Robertson
1910 Mr. R. Threlfall, F.R.S.
1911 Sir Hugh Bell
1911 Sir J. T. Brunner, Bart.
1911 Col. R. E. Crompton
1911 Capt. R. H. Sankey
1912 Mr. Horace Brown.
1912 Prof. W. E. Dalby.
1912 Mr. Horace Darwin.
1912 Dr. W. N. Shaw.

Nominated by the
President and
Council of the
Royal Society.

1907 Dr. F. Elgar, F.R.S. (Inst. Naval Arch.)
1907 Mr. W. H. Maw (Inst. Mech. Eng.)
1908 Mr. R. Kaye Gray (Inst. Elect. Eng.)
1908 Mr. T. Tyrer (Soc. Chem. Industry)
1909 Mr. J. A. Aspinall (Inst. Mech. Eng.)
1909 Mr. A. F. Yarrow (Inst. Naval Arch.)
1910 Mr. R. A. Hadfield (Iron and Steel Inst.)
1910 Sir William White, F.R.S. (Inst. Civil Eng.)
1911 Mr. J. Gavey (Inst. Elect. Eng.)
1911 Mr. D. Howard (Soc. Chem. Industry)
1912 Sir J. Wolfe Barry, F.R.S. (Inst. Civil Eng.)
1912 Mr. E. P. Martin (Iron and Steel Inst.)

Nominated by the
Technical Soci-
eties named in
the Scheme.

EXECUTIVE COMMITTEE OF THE NATIONAL PHYSICAL LABORATORY.**Retires****December**

- The President of the Royal Society.
- 1912 The Vice-Chairman of the Committee (Lord Rayleigh, P.R.S.).
The Treasurer of the Royal Society.
A Secretary of the Royal Society (Prof. J. Larmor).
The Permanent Secretary of the Board of Trade.
- 1907 Sir A. W. Rücker, F.R.S.
- 1908 Prof. H. L. Callendar, F.R.S.
- 1909 Sir Andrew Noble, F.R.S.
- 1910 Sir W. de W. Abney, F.R.S.
- 1911 Col. R. E. Crompton, R.E.
- 1912 Mr. G. T. Beilby, F.R.S.
-
- | | | |
|------|------------------------------|---|
| 1907 | Dr. F. Elgar, F.R.S. | } Members of the
General Board
nominated by the
Technical Soci-
eties named in
the Scheme. |
| 1908 | Mr. David Howard | |
| 1909 | Mr. W. H. Maw | |
| 1910 | Mr. R. A. Hadfield | |
| 1911 | Mr. R. Kaye Gray | |
| 1912 | Sir John Wolfe Barry, F.R.S. | |

Director.

R. T. Glazebrook, D.Sc., F.R.S.

Superintendent of Observatory Department.

C. Chree, Sc.D., F.R.S.

Superintendent of Engineering Department.

T. E. Stanton, D.Sc.

REGULATIONS FOR ADMINISTERING THE GOVERNMENT GRANT FOR SCIENTIFIC INVESTIGATIONS.

I.

1. The Government "Grant for Scientific Investigations undertaken with the sanction of a Committee appointed for the purpose" shall be administered by the President and Council of the Royal Society; but, subject as hereinafter provided, no payment shall be made thereout except with the sanction of a General Committee, consisting of the President and Council of the Royal Society for the time being, of the following *ex officio* Members:—

The President of the Royal Society of Edinburgh and one other Representative,

The President of the Royal Irish Academy and one other Representative,

The Presidents of—

The British Association,

The London Mathematical Society,

The Royal Astronomical Society,

The Physical Society,

The Institution of Civil Engineers,

The Institution of Mechanical Engineers,

The Institution of Electrical Engineers,

The Chemical Society,

The Iron and Steel Institute,

The Geological Society,

The Royal Geographical Society,

The Linnean Society,

The Zoological Society,

The Anthropological Institute,

The Royal College of Physicians,

The Royal College of Surgeons,

and of the Members, for the time being, of the several Boards hereinafter spoken of.

2. The President of the Royal Society, or, in his absence, one of the Vice-Presidents, shall preside at all Meetings of the General Committee.

3. Seven Boards shall be established, viz. :—

- A. For the consideration of Applications relating to Mathematics, Mathematical Physics, Crystallography and Mathematical Astronomy.
- B. For the consideration of Applications relating to Experimental Physics, Observational Astronomy, and Meteorology.
- C. For the consideration of Applications relating to Chemistry and Metallurgy.
- D. For the consideration of Applications relating to Geology, Palæontology, Mineralogy, and Geography.
- E. For the consideration of Applications relating to Botany.
- F. For the consideration of Applications relating to Zoology and Comparative Anatomy.
- G. For the consideration of Applications relating to Animal Physiology and Medical Subjects.

4. Each Board shall consist of eight Members, to be appointed by the President and Council of the Royal Society, Scotland and Ireland being as far as possible represented on each Board, and each Member shall serve for four years, so that two retire annually, and be not eligible for re-appointment on the occasion of their retiring. Should a vacancy occur by reason of death or otherwise, at any intermediate time, the Council shall appoint a person to fill the vacancy, and the person so appointed shall retire at the time the Member whose place he fills would have retired had he continued until then to be a Member, but if he have not served more than two years shall be eligible for re-appointment.

5. The President and Council of the Royal Society shall appoint a Member of each Board to be Chairman of the Board. All communications made to and by the Board shall be made through the Chairman, who shall be held responsible for the management of the business of the Board, and who shall have a second or casting vote. When a Chairman is unable to perform the duties of the Chair, he shall appoint a Member of the Board to act as his deputy, and to exercise his powers.

6. Each Chairman has authority to summon his Board, whenever he thinks fit (in addition to any Meeting or Meetings of the Board which may be appointed by the Council), to meet either at the Rooms of the Royal Society, during the hours specified in the Statutes (chap. xiv, § 7), or at such other place as he may deem desirable.

7. The summonses are to be issued by the Clerk at the direction of the Chairman. -

8. Any three Members of a Board are to be a quorum of that Board ; but the decisions arrived at at a Meeting of a Board at which less than three Members are present shall be valid, if subsequently agreed to in writing by not less than five Members in all.

II.

9. In order to meet any extraordinary demands which may be made upon the Grant, a Reserve Fund may be accumulated, but so that it shall not at any time exceed £2,000.

10. A Grant, the payment of which is intended to be completed within a period of twenty-two months following upon the Meeting of the Committee at which the Grant was made, shall be called an "ordinary" Grant. The Committee shall, however, if they see fit, make Grants for "personal" or other expenditure, each of which may extend over a period not exceeding three years, but in no case shall such a personal Grant exceed £300 per annum. For this purpose the Committee may, in any one year, reserve from the Fund of the year an amount sufficient to cover the payment during the period for which the Grant has been made, the continuance of the payment of the instalments of such Grants to be conditional on the recipients furnishing, as hereinafter provided, evidence satisfactory to the Committee that the object of the Grant is being properly carried out. Such Grants shall be called "extended" Grants.

III.

11. Adequate notice shall be given in the public papers each year that applications for Grants must be sent in to the Royal Society not later than the last day of January, and no applications received after that date shall be considered by the Committee of that year.

12. Each applicant shall be required to furnish information under the following heads:—

- a. The nature of the research in which he desires to engage, and of the scientific results expected to follow therefrom.
- b. The amount asked for, and particulars of the proposed expenditure.
- c. Whether he has received any previous Grant from any source for the same object, and if so, with what results.
- d. Whether any portion of the Grant is to be devoted to his own personal expenses.

- e. What apparatus, if any, of permanent value he will require; so that any instruments, already at the disposal of the Committee, may be utilised.

13. Applications which have for their avowed object the mere promotion of commercial inventions or patents, and not any scientific research, and applications which appear to the Secretaries of the Royal Society to have reference to matters wholly unsuitable for Grants, shall not be included in the list referred to in Regulation 14.

14. As soon as possible after February 1st in each year, the Secretaries of the Royal Society shall cause to be drawn up a list of all the applications, arranged, according to the nature of the research in each application, in classes corresponding to the above-mentioned Boards, and shall cause such list to be distributed to all Members of the Committee. This list shall contain a brief statement of the information received under Clause 12.

15. The Secretaries of the Royal Society shall further cause to be sent to the Chairman of each Board the original applications belonging to the class corresponding to his Board, together with any other information, letters, documents, &c., which may have been furnished by the several applicants.

16. If the Chairman of a Board, on receiving a list of applications under Regulation 15, shall find that any application on that list is, in his opinion, more appropriate to another Board than his own, or that any application which ought, from its nature, to have been referred to a Board or to Boards besides his own, is referred only to his own Board, or that an application proper to his Board has been referred to another Board, he shall at once report the same to the Secretaries of the Royal Society.

17. Should any application appear to the Secretaries of the Royal Society to relate to more than one Board, they shall refer the application to the several Boards to which it appears to relate.

18. Each Board, having taken into consideration the applications submitted to it, making such use of correspondence between Members of the Board as may be desirable for the purpose, shall report, stating, with reference to each such application, whether they recommend the acceptance of it in part or in whole, or the rejection of it; and the Clerk shall cause the Reports of the several Boards to be distributed as soon as possible to all Members of the Committee.

19. It shall be in the power of any Board to initiate an inquiry and to recommend a Grant for the purpose, and such a recommendation

having been reported to the Committee with the other recommendations of the Board, shall take its place among applications recommended to the Committee for acceptance, in spite of application not having been made in the ordinary way.

20. In the ordinary course in each year a Meeting of each Board shall be held at the Society's Rooms soon after the receipt by the Chairman of the applications, and a subsequent Meeting shall be held to come to final decisions on the applications on a day to be fixed by the Council for a simultaneous Meeting of the Boards; but the Chairman may, if he finds it desirable, change the day of the latter Meeting, and he may even omit the one or the other of these Meetings, should he judge the one or the other to be unnecessary.

IV.

21. The General Committee shall meet on the third Wednesday (or, if that fall in Whitsun Week, the fourth Wednesday) in May, at which Meeting the Reports of the Boards shall be read, considered (the Chairman of each Board, or in his place some other Member of it, giving such explanations with regard to the decisions of the Board as may seem desirable), and voted upon. The voting shall be by show of hands, unless any Member demands a ballot, in which case it shall be by ballot.

22. In the case of applications which have been recommended by the appropriate Board, or recommendations initiated by any Board, the voting in Committee shall be by simple majority of those present, except in the case of "extended" Grants coming under Clause 10, which Grants shall require the assent of two-thirds of those present.

23. Applications which have been rejected by the appropriate Board shall not be reconsidered in Committee except with the consent of two-thirds of those present, and any applications so reconsidered shall not be granted by the Committee otherwise than by a majority of two-thirds; likewise a proposal to increase the amount of any Grant made by a Board shall not be considered in Committee except with the consent of two-thirds of those present, and the increase so considered shall not be granted by the Committee otherwise than by a majority of two-thirds.

24. The Committee shall have power to place each year at the disposal of the President and Council of the Royal Society, a sum not exceeding £500 to meet any pressing demands upon the Fund which may be made between the annual Meetings of the Committee.

25. The President of the Royal Society shall further have power, in case he is of opinion that there is urgency for an immediate Grant of a sum too large to be provided by the Fund referred to in Clause 24, and necessitating a call upon the Reserve Fund, to summon a Special Meeting of the Committee, who, if they see fit, shall decide on such Grant, provided always that due notice of such Meeting, with a statement of the purpose for which it is called, be sent to each Member of the Committee fifteen days before the date fixed for the Meeting.

V.

26. No Grants shall be made to other than British subjects.

27. All Grants shall be subject to the following conditions, and every applicant shall, on his applying, be duly informed of these conditions:—

- i. That all instruments, specimens, objects, or materials of permanent value, whether purchased or obtained out of, or by means of, the Grant, or supplied from among those at the disposal of the Committee, are to be regarded, unless the Committee decide otherwise, as the property of the Government, and are to be returned by the applicant, for disposal according to the orders of the Committee, at the conclusion of his Research, or at such other time as the Committee may determine.
- ii. That every one receiving a Grant shall furnish to the Committee, on or before the 31st of December following upon the allotment of the Grant, a Report (or, if the object of the Grant be not then attained, an interim Report, to be renewed at the same date in each subsequent year until a final Report can be furnished, or the Committee dispense with further Reports), containing (a) a brief statement showing the results arrived at, or the stage which the inquiry has reached; (b) a general statement of the expenditure incurred, accompanied, so far as is possible, with vouchers; (c) a list of the instruments, specimens, objects or materials, purchased or obtained out of the Grant, or supplied by the Committee, which are at present in his possession; and (d) references to any Transactions, Journals, or other publications in which results of the Research have been printed.

In the event of the grantee failing to send in, within three months of the said 31st December, a report satisfactory to the Board which recommended the Grant, he shall return the whole of the sum allotted to him.

- iii. That when a Grant is asked for a definite Research, for which an estimate can be obtained, applicants are required, with their applications, to furnish such an estimate.
- iv. That no portion of a Grant may be expended in the payment of an assistant unless specific application for the sanction of such expenditure is included in the statement required to be furnished under Regulation 12b.
- v. That when an application is for a Grant to two or more persons to act as a Committee for the purpose of carrying out some scientific object, the application shall state which Member of the proposed Committee is willing to act as Secretary, to be responsible for furnishing the Report, for receiving and disbursing the money, and in general for the conduct of the business of the Committee.
- vi. That Grants shall lapse at the end of twenty-two months from the date of allotment, if application for payment be not made within that time.
- vii. That papers in which results are published which have been obtained through and furnished by the Government Grant, should contain an acknowledgment of that fact.

The Committee shall further have power to attach to any Grant any other conditions which they may think desirable.

28. Every applicant to whom a Grant is made shall, before any of the Grant is paid to him, be required to sign an engagement that he is prepared to carry out the general conditions applicable to all Grants, as well as any conditions which may be attached to his particular Grant.

29. The Chairman of each Board is expected to see that the Annual Reports provided for by Regulation 27 (ii), furnished by Grantees, give an adequate account of the work done and the results attained, and in cases where the Reports are inadequate, to inform the Clerk of the fact in order that he may communicate with such Grantees.

30. Printed copies of these Reports shall each year, so soon as possible after January 31, be submitted to the several Boards; and it shall be the duty of each Board to examine the Reports relating to Grants recommended by it, and to report to the Committee (or, in case of urgency, to the Council of the Royal Society) any deficiencies therein, or any action relating thereto which the Board thinks desirable.

31. The Clerk to the Committee shall report to the several Boards all cases in which Grantees refuse or neglect to furnish Reports, and it shall be the duty of each Board to whom any such case is reported to take such action thereon as it may think necessary, including a recommendation to the Council that legal proceedings should be taken against the defaulting Grantee.

32. In the case of a Grant recommended by a Board being for the purpose of enabling the applicant to collect by means of the Grant, or part of it, specimens, objects, or materials of permanent value, the Board shall, whenever it is able to do so, add to its recommendation conditions as to the final disposal of such specimens, objects, or materials.

33. The recipient of an "extended" Grant shall make to the Board which recommended the Grant, half-yearly, or, if the Board desire it, oftener, such Reports as the Board may determine concerning the way in which the object of the Grant is being carried out; and each such recipient shall, on receiving notice that the Grant has been made to him, be informed of his duty to make such Reports, and shall express in writing his willingness to do so. Should any Board be of opinion, after receiving such Reports, that the object of the Grant is not being properly carried out, they shall report the same to the next Meeting of the Committee. The Chairman of the Board shall move at the Meeting of the Committee that the Grant be discontinued, and if the Committee by a majority approve of the Grant being discontinued, it shall be discontinued.

VI.

34. The President and Council of the Royal Society may in each year set aside out of the Reserve Fund such sum as they may consider desirable to provide for any expenditure which may be incurred by the Royal Society (including expenditure on printing, clerks' salaries, and office expenses) in undertaking, controlling, supervising or advising upon matters which the President and Council may at the request of the Government undertake, control, supervise, or advise upon.

VII.

35. There shall be a Clerk to the Government Grant Committee, who shall be appointed by the President and Council of the Royal Society, and shall be paid such salary as they shall determine. He shall be under the orders and directions of the President and Council of the Royal Society.

36. A sum of £200 shall be yearly placed at the disposal of the President and Council to provide for the salary of the Clerk, and other incidental purposes.

37. All Grants and other payments made out of the Government Grant shall be paid by cheque, signed by the Treasurer of the Royal Society and countersigned by the Clerk to the Committee.

38. A Professional Accountant shall be employed to audit the accounts in chief. A preliminary examination of the detailed accounts and vouchers shall be made by the Clerk to the Committee, who is instructed to submit to the Chairman of the appropriate Boards the cases which appear to him to be doubtful; and the Chairman of a Board shall examine any such case so submitted to him, and take such action as may seem to him desirable.

VIII.

39. A Schedule shall be kept of all instruments, specimens, etc., of permanent value, in furtherance of Regulation 27 (i), and of Clause e of Regulation 12.

40. The Chairman of a Board may authorise the transfer of any instrument, specimen, &c., obtained by means of a Government Grant, and no longer needed by the person by whom it was obtained or to whom it was assigned, to any other person applying to the Government Grant Committee for the loan of the instrument, specimen, &c., if in his judgment such a transfer is desirable. He shall in each case report his having done so to the Secretaries of the Royal Society.

41. All instruments returned by a Grantee which are not suitable for preservation under Regulation 39, may be purchased by such Grantee for such price as may be approved of by the Treasurer of the Royal Society, and if not so purchased, shall be offered for presentation to the National Physical Laboratory, and if the Laboratory has no need for them, they shall be sold to such person and for such price as may be approved by the Treasurer of the Royal Society. The proceeds of any such sale shall be carried into the Reserve Fund.

Account of the Appropriation of the Sum of £4,000 (the Government Grant) annually voted by Parliament for Scientific Investigations.

April 1, 1905, to March 31, 1906.

	£	s.	d.
Prof. Turner, revision of the measures and reductions of the 1,180 plates of the Astrographic Catalogue.....	50	0	0
T. Wright, determination of harmonic tidal constants for the New Zealand ports	20	0	0
Sir R. Ball, definitive reduction of observations of Eros for a new determination of the solar parallax and the mass of the moon	100	0	0
E. W. Maunder, extension of an enquiry as to the connection of magnetic disturbances with the sun	15	0	0
Prof. Schuster, to test the relationship between the amount of rainfall and a certain configuration of earth and moon	20	0	0
Dr. A. E. Tutton, to defray the cost of additions to the "elasmometer," constructed by means of Government Grants	30	0	0
Rev. W. Sidgreaves, to carry on observations of sun-spot spectra	70	0	0
Joint Permanent Eclipse Committee, observations of the total solar eclipse, August 30, 1905	860	0	0
Dr. H. Sand, examination of deposition potentials of various metals	20	0	0
Dr. O. W. Richardson, investigation of electrical properties of hot bodies	15	0	0
W. L. Fox, maintenance of magnetographs at Fal-mouth Observatory	53	0	0
J. Russell, effect of superposition of alternating and oscillating fields upon magnetisation in iron, steel, and nickel	30	0	0
Carried forward.....	£1,283	0	0

Brought forward.....	£1,283	0	0
Dr. P. E. Shaw, to construct a measuring machine of special electrical design.....	60	0	0
Dr. W. M. Watts, nature of the spectrum given by pure carbon compounds and of that (or those) of phosphorous compounds.....	10	0	0
C. Cuthbertson, determination of refractive indices, in the gaseous state, of fluorine and other elements	120	0	0
Dr. H. N. Dickson and Dr. Wolfenden, analysis and reduction of hydrographic observations made in the N. Atlantic Ocean.....	15	0	0
Dr. F. D. Chattaway, study of isomeric change among nitrogen compounds, etc.	30	0	0
Dr. J. F. Thorpe, to prepare 1 : 3 dioxynaphthalene and 1 amido—3 oxynaphthalene in a special manner	30	0	0
Prof. F. R. Japp, (1) further investigation of reaction of ketones, diketones, and allied compounds; (2) preparation of derivatives of isoamarine	50	0	0
W. J. Sell, (1) further study and orientation of chlorpyridines; (2) to study chlorination of the picolines	60	0	0
Dr. H. O. Jones, (1) investigation of assymmetric nitrogen compounds; (2) autoracemisation and change of molecular weight of these compounds	60	0	0
Prof. J. J. Sudborough, continuation of work on esterification constants of organic acids	20	0	0
Dr. G. T. Morgan, comparative study of the amines of the aromatic hydrocarbons	50	0	0
Dr. W. A. Bone, combustion of hydrocarbons, decomposition of hydrocarbons at high temperatures, etc.	60	0	0
L. A. Levy, investigation of the properties of platino-cyanides, chiefly with respect to their fluorescence under radium and X-rays	15	0	0
J. B. Burke, action of radium on various phosphorescent and other substances	15	0	0
Prof. J. W. Gregory, a search of the islands in Bass Strait for aboriginal implements	20	0	0
Carried forward.....	£1,898	0	0

Brought forward.....	£1,898	0	0
H. Woods, continuation of a monograph of the cretaceous lamellibranchs of England	20	0	0
Dr. C. Davison, investigation of current British earth- quakes	65	0	0
Dr. C. Davison, investigation of British earthquakes before the year 1891	50	0	0
F. J. Lewis, systematic exploration of the succession of plant beds in the peat of the Scottish Highlands and Midland plain.....	50	0	0
Prof. F. W. Oliver, investigation of the structure of French petrified seeds of permo-carboniferous age.....	15	0	0
Prof. F. E. Weiss, enquiry into the origin and distribution of plant remains of coal measure age occurring as petrifications.....	40	0	0
Dr. A. J. Ewart, research on the ascent of water in trees	50	0	0
C. E. Moss, botanical survey of the Peak District.....	15	0	0
Prof. M. C. Potter, study of bacteria, especially in relation to plant diseases	25	0	0
W. M. Rankin, botanical survey of part of the British Isles.....	20	0	0
A. G. Tansley, morphology of vascular system of seedlings in various families of dicotyledons and gymnosperms	18	0	0
J. Golding, investigation of process of nitrogen fixation in root nodules of leguminous plants	30	0	0
J. L. Williams, investigation of biology of, (1) the dictyoaceous genera <i>padina</i> , <i>haliseris</i> , and <i>taonia</i> ; (2) <i>culleria</i> ; (3) <i>laminariaceæ</i>	20	0	0
Miss Chick, study of nitrification during sewage purification.....	20	0	0
W. Bateson, experimental studies in heredity	75	0	0
R. Vallentin, study of the fauna of the north coast of Cornwall.....	20	0	0
Carried forward	£2,431	0	0

Brought forward.....	£2,431	0	0
A. D. Darbishire, research on heredity with particular reference to the theory of gametic purity, existence of unit characters and the nature of reversion	60	0	0
Dr. Swinnerton, to obtain material for further investigation of the development of the skeleton of bony fishes	30	0	0
Prof. G. S. Brady, marine zoological exploration on and around the Farne Islands and embryological research on such birds as may be available.....	15	0	0
E. S. Hartland, ethnological investigations of the Coast Salish and other tribes of British Columbia.....	40	0	0
Dr. F. H. A. Marshall, investigation of the factors controlling the oestrous cycle in various mammalia, etc.	50	0	0
Dr. Henry Woodward, for the compilation of an index to all generic and specific names applied to animals during the period 1758-1900	100	0	0
Dr. R. F. Scharff, to obtain complete critical lists, with distributional details, of the animals and plants inhabiting Ireland.....	50	0	0
G. P. Mudge, research on heredity and (1) its bearing on Mendelianism ; (2) physiological nature of albinism ; (3) transmission of acquired characters	30	0	0
Dr. E. W. Walker, re-action of the animal body to bacterial invasion, etc.	15	0	0
T. R. Elliott, (1) examination of the innervation of the bladder and urethra ; (2) research on adrenalin, etc. ...	30	0	0
Leonard Hill, influence of increased or diminished atmospheric pressure on life.....	60	0	0
Prof. T. G. Brodie, (1) tension of the gases of the blood ; (2) gaseous metabolism of the kidney ; (3) pathology of kidney disease.....	60	0	0
Dr. R. I. Ewart, research on the viscosity of the blood	25	0	0
Dr. S. B. Schryver, investigations of the chemical stability of the tissues	40	0	0
Dr. F. S. Locke, investigation of the physiology of the isolated mammalian heart.....	20	0	0
Carried forward.....	£3,056	0	0

Brought forward	£3,056	0	0
Dr. J. Eyre, (1) etiology of Mediterranean fever ; (2) life-history and pathogenesis of diplococcus pneumoniae	25	0	0
Prof. E. H. Starling, (1) secretion of succus entericus ; (2) mechanism of secretion of milk, etc. ; (3) protection of intestinal wall against digestion	50	0	0
C. E. Ham and H. Balean, (1) study of arrangement of superficial plexus of nerves of the limbs ; (2) research on the effects of acids on blood	30	0	0
Prof. A. S. Grünbaum, re-investigation of Ebstein's experiments on uric acid and metabolism	25	0	0
Prof. C. S. Sherrington, experiments on the nature of a rhythmic reflex obtainable from the spinal cord.....	50	0	0
Prof. B. Moore, effects of respiration of variable per- centages of oxygen on metabolism	20	0	0
Dr. J. S. Edkins, investigation of causes which bring about "chemical" secretion of the stomach as opposed to the psychic secretion	25	0	0
Dr. H. K. Anderson, (1) behaviour of paralysed in- voluntary muscle ; (2) myelination of the peripheral nervous system	20	0	0
Dr. M. S. Pembrey, (1) blood gases, etc., in diabetes ; (2) temperature, etc., during muscular work ; (3) apnoea, dyspnoea ; (4) hibernation	70	0	0
Dr. R. H. A. Plimmer, hydrolysis of proteids.....	30	0	0
F. G. Hopkins, further inquiry into the chemistry of proteids	20	0	0
W. B. Hardy, research on colloidal properties of pro- teids	15	0	0
Prof. W. D. Halliburton, to continue and complete researches on (1) regeneration of nerves ; (2) chemistry of the phosphorised constituents of the brain, etc.....	60	0	0
Dr. O. Rosenheim, (1) new proteid reaction ; (2) detec- tion and estimation of cholin in animal fluids	20	0	0
Carried forward.....	£3,516	0	0

Appropriation of the Government Grant.

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Brought forward.....	£3,516	0	0
Dr. H. Pringle, constitution of clupein, the protamine obtained from herring sperma	15	0	0
Joint Permanent Eclipse Committee, to enable Mr. E. W. Maunder to observe the total solar eclipse in Canada	40	0	0
Prof. Chrystal, for the purchase of two Dines' micro- barographs for use in a series of observations of the seiches of Loch Earn.....	30	10	5
Prof. Haswell, for the investigation, by dredging, of the fauna of the Tasman Sea	125	0	0
	<u>£3,726</u>	<u>10</u>	<u>5</u>

REVENUE ACCOUNT.

1905-1906.

GENERAL FUND.

<i>Cr.</i>	£	s.	d.		<i>Dr.</i>	£	s.	d.
To Appropriations as above	3,726	10	5		By Parliamentary Grant .	4,000	0	0
„ Salary, Printing, Post- age, Advertising, &c...	200	0	0		„ Transfer from Reserve Fund	281	0	0
„ Transfer to Reserve Fund	304	9	7					
	<u>£4,231</u>	<u>0</u>	<u>0</u>			<u>£4,231</u>	<u>0</u>	<u>0</u>

RESERVE FUND.

<i>Cr.</i>	£	s.	d.		<i>Dr.</i>	£	s.	d.
To Transfer to General Fund	281	0	0		By Balance, April 1, 1905	1,275	10	9
„ Royal Society—As- signment for ex- penses of Govern- ment Enquiries ..	176	1	3		„ Transfer from General Fund	304	9	7
„ Balance, March 31, 1906	1,602	7	8		„ Repayments	287	10	9
	<u>£2,009</u>	<u>8</u>	<u>11</u>		„ Grants unclaimed ..	117	10	0
					„ Interest on Deposit ..	24	7	10
						<u>£2,009</u>	<u>8</u>	<u>11</u>

REGULATIONS GOVERNING THE USE OF THE LIBRARY
OF THE ROYAL SOCIETY.

1. The Library shall be open to the Fellows every week-day (exclusive of Good Friday and Easter-eve, of Easter week, of a week at Whitsuntide, and of a week at Christmas), from 11 A.M. to 6 P.M., except on Saturdays, when it shall be open from 11 in the morning to 1 in the afternoon; but during the months of August and September, it shall be closed on week-days other than Saturdays at 4 P.M.

2. Any Fellow may have the loan of any of the printed Books of the Society, excepting such as the Council shall order not to be taken out of the Library; but he shall not be allowed to have in his possession more than ten volumes at a time. The loan of Manuscripts is exclusively vested in the President and Council.

3. A List of all Books and Manuscripts borrowed from the Library of the Royal Society, and of the Fellows of the Society to whom they are lent, shall be kept in the Library.

4. All books whatsoever belonging to the Society, shall be returned at a time to be specified by the Council in each year; and the Library shall be closed for one month after such time, or for such shorter periods as the Council may direct.

5. The value of such Books in the possession of any Fellow as are not returned to the Library, pursuant to the preceding Statute, shall be required to be paid by the person who has so detained them.

6. No persons other than Fellows have the privilege of using the Library, except upon a written introduction from a Fellow, with whom rests the responsibility for all books entrusted to the person introduced. Every such introduction shall be valid only until the 1st August next ensuing.

7. Dictionaries, Cyclopædias, and works of general reference do not circulate.

8. Books of exceptional rarity, size, or value, are only allowed to circulate by special permission of the Council.

9. All books are borrowed subject to recall after one month's interval.

10. All books are returnable to the Library *on the 1st August in each year*, and no books can be borrowed during the month of August.

11. All applications for the use of the Library are to be addressed to the *Assistant Secretary and Librarian*, who is charged with the carrying out of these regulations.

Ordered by the Library Committee at their
meeting on the 16th December, 1898.

ADDITIONS TO LIBRARY, 1905-1906.

- Antropometria Militare. Risultati. . . 1859-63. 2 vols. 4to. *Roma*
1896-1905. From the Italian Ministry of War.
- Avebury (Lord) British Flowering Plants. 8vo. *London*, 1905.
From the Author.
- Bromwich (T. J. I'A.) Quadratic Forms and their Classification by
means of Invariant Factors. (Cambridge Tracts in Mathematics,
No. 3.) 8vo. *Cambridge* 1906. From the Author.
- Campbell (A. W.) Histological Studies on the Localisation of Cerebral
Function. 4to. *Cambridge* 1905.
(Published by aid of a subsidy from the Society.)
- Catalogue of 1772 Stars . . . for Epoch 1900, from Observations made
at the Radcliffe Observatory, Oxford, during the years 1894-1903.
4to. *Oxford* 1906. From the Radcliffe Trustees.
- Ceradini (G.) Opere. 2 vols. 4to. *Milano* 1906.
From Mme. Ceradini.
- Chicago University. Decennial Publications. Vol. X. 4to. *Chicago*
1902-3. From the University.
- Climatological Atlas of India, published under the direction of Sir
John Eliot, F.R.S. Issued by the Indian Meteorological Depart-
ment. La. folio. 1906. From the Department.
- Danish Ingolf Expedition. Vol. VI, Pt. 2. 4to. *Copenhagen* 1905.
From the Zoological Museum, Copenhagen.
- Deutsche Südpolar Expedition, 1901-03. Band IX. Zoologie,
1. Band, Heft 2. 4to. *Berlin* 1906.
From the German Embassy.
- Die Physikalischen Institute der Universität Göttingen. Festschrift,
1906. 4to. *Leipzig* 1906. From Göttinger Vereinigung.
- Duhem (Pierre) Recherches sur l'Élasticité. 4to. *Paris* 1906.
From the Author.
- Expédition Antarctique Belge. Résultats du Voyage du *Belgica* en
1897-99. 20 parts, 4to., with maps.
From the Belgian Government.
- Fauna of British India. Rhynchota. Vol. 3. By W. Distant. 8vo.
London 1906. From the India Office.
- Fergusson (John) Bibliotheca Chemica : a Catalogue of the Alchemical,
Chemical, &c., Books in the Collection of the late James Young,
of Kells. 2 vols. 4to. *Glasgow* 1906.
From the Trustees of James Young.
- Fischer (Emil) Untersuchungen über Aminosäuren, Polypeptide und
Proteine (1899-1906). 8vo. *Berlin* 1906. From the Author.
- Haeckel (E.) Last Words on Evolution. Translated by J. McCabe.
8vo. *London* 1906. From Author and Publishers.

- Haeckel (E.) *Prinzipien der Generellen Morphologie der Organismen.* Wörtlicher Abdruck eines Teiles der 1866 erschienenen Generellen Morphologie. 8vo. *Berlin* 1906. From the Author.
- Hall (A. D.) *The Book of the Rothamsted Experiments.* 8vo. *London* 1905. From the Publisher.
- Hardy (Marcel) *Esquisse de la Géographie et de la Végétation des Highlands d'Écosse.* 8vo. *Paris* 1905. From the Author.
- Heinz (R.) *Handbuch der Experimentellen Pathologie.* Band 1. 8vo. *Jena* 1904-05. From the Author.
- Hermite (Ch.) *Œuvres, publiées sous les auspices de l'Académie des Sciences, par Emile Picard.* Tome 1. 8vo. *Paris* 1905. From the Academy.
- Hill (G. W.) *Collected Mathematical Works.* Vol. II. 4to. *Washington* 1906. From the Carnegie Institution.
- Huggins (Sir W.), F.R.S. *The Royal Society, or Science in the State and in the Schools.* Sm. 4to. *London* 1906. From the Author.
- Jägerskiöld (L. A.) *Results of the Swedish Zoological Expedition to Egypt and White Nile, 1901.* Part 2. 8vo. *Uppsala.* From University of Uppsala.
- Kapteyn (J. C.) *Plan of Selected Areas.* Published by the Astronomical Laboratory at Groningen. 8vo. *Groningen* 1906. From the Author.
- Lamb (H.), F.R.S. *Hydrodynamics.* 3rd Edition. 8vo. *Cambridge* 1906. From the Author.
- Lehmann (O.) *Photographs of Fluid Crystals, with accompanying pamphlets.* From the Author.
- Lyons (Capt. H. G.), F.R.S. *The Physiography of the River Nile and its Basin.* 8vo. *Cairo* 1906. From the Survey Department, Egypt.
- Macleán (F.), F.R.S. *Photographs of the Spectrum of Nova Persei.* Folio. *London* 1905. From Mrs. Maclean.
- Mexico—its Social Evolution. 3 vols. La. 4to. *Mexico* 1900-04. From the Mexican Government.
- Michotte (A.) *Les Signes Régionaux. Répartition de la Sensibilité Tactile, &c.* 8vo. *Louvain* 1905. From the University of Louvain.
- Mission Scientifique pour la Mesure d'un Arc de Méridien au Spitzberg. Mission Suédoise. T. 1 and 2. 12 parts. 4to. *Stockholm* 1903-06. From the Swedish Government.
- Moissan (H.) *Traité de Chimie Minérale.* Vol. V. Métaux. 8vo. *Paris* 1906. From the Author.
- Morandi (L.) *Contribución al Estudio de la Climatología de Monte video y del Uruguay.* La. 8vo. *Montevideo* 1904. From the Author.

- Norman (Rev. A. M.), F.R.S. *Museum Normannianum. Parts I-XII.* 8vo. 1886-1905. (Private print.) From Dr. Norman.
- Norman (Rev. A. M.), F.R.S., and Scott (T.) *The Crustacea of Devon and Cornwall.* 8vo. *London* 1906. From Dr. Norman.
- Ray Society. *British Desmidiaceæ, Vol. II; British Fresh-water Rhizopoda and Heliozoa. Vol I.* 2 vols. 8vo. Subscription.
- Schlich's Manual of Forestry. Third Edition, Vol. I. *Forest Policy in the British Empire.* 8vo. *London* 1906. From the India Office.
- Sears (J. H.) *The Physical Geography, Geology, &c., of Essex County, Massachusetts.* 4to. *Salem, Mass.*, 1905. From the Essex Institute.
- Société Française de Physique. *Collection de Mémoires. 2. Série. Les Quantités Élémentaires d'Électricité. Fasc. 1-2.* 8vo. *Paris* 1905. From the Société.
- Sollas (W. J.), F.R.S. *The Age of the Earth.* 8vo. *London* 1905. From the Author.
- Stirling (W.) *New Theories in Astronomy.* 8vo. *London* 1906. From the Publishers.
- Studies from the Rockefeller Institute for Medical Research. (Reprints.) Vols. I-III. 8vo. 1904-5. From the Institute.
- Suess (E.) *Face of the Earth. Vol. II.* Translated by Hertha Sollas. 8vo. *Oxford* 1906. From Prof. Suess.
- Thurston (E.) *Ethnographic Notes on Southern India.* 8vo. *Madras* 1906. From the Author.
- Trépied (C.) *Tables et Cartes d'Occultations. Théorie et Applications.* 4to. *Paris* 1905. From Paris Observatory.
- Verbeek (R. D. M.) *Déscription Géologique de l'Île d'Ambon.* (With folio atlas.) La. 8vo. *Batavia* 1905. From Ministry of Colonies, The Hague.
- Wiesner (Julius) *Jan Ingen-Housz: sein Leben u. Wirken.* 8vo. *Wien* 1905. From the Author.
- Wingate (W. J.) *Preliminary List of Durham Diptera.* 8vo. *Newcastle-on-Tyne* 1906. From the Natl. Histy. Socy. of Northumberland.
- Zahikjanz (G.) *Theorie Berechnung u. Konstruktion der Dampfturbinen.* 8vo. *Berlin* 1906. From the Author.

ACCESSIONS TO SERIALS.

- Archives de l'Institut Royal de Bactériologie Camara Pistana. Tome 1, Fasc. 1.* 8vo. *Lisbonne* 1906. From the Institute.
- Oporto. *Acad. Polytechnica. Annaes Scientificos. Vol. I, 1-4.* 8vo. *Coimbra* 1905-6. From the Academy.
- Naples. *Annuario del Museo Zoologico della R. Università. N.S. Vol. I.* La 8vo. *Napoli* 1901-5. From the University.

INSTITUTIONS ON WHICH THE ROYAL SOCIETY IS REPRESENTED.

UNIVERSITIES.

	Representative.	Appointed.
Oxford University—		
Savilian Professorship of Geometry	The President. (Elector).	<i>Ex officio.</i>
Savilian Professorship of Astro- nomy.	"	"
Sedleian Professorship of Natural Philosophy.	"	"
Professorship of Experimental Philosophy.	"	"
Wykeham Professorship of Physics.	"	"
Waynflete Professorship of Che- mistry.	"	"
Waynflete Professorship of Mine- ralogy.	"	"
Professorship of Geology.	"	"
Cambridge University—		
Lowndean Professorship of Astro- nomy and Geometry.	"	"
Liverpool University Court.	Prof. Gotch.	Jan. 18, 1906.

PUBLIC SCHOOLS.

Governing bodies of:—		
Charterhouse.	Professor Sherrington.	Nov. 27, 1902.
Christ's Hospital.	Professor Armstrong.	Jan. 16, 1896.
Dulwich College.	Professor G. C. Foster.	Jan. 19, 1893.
Eton College.	Sir Henry E. Roscoe.	Dec. 20, 1888.
Harrow School.	Sir Arch. Geikie.	June 16, 1892.
Rugby School.	Sir Arthur Rücker.	Mar. 10, 1892.
Shrewsbury School.	Dr. Pye-Smith.	July 7, 1887.
Westminster School.	Professor Bonney.	Oct. 27, 1881.
Winchester College.	Major P. A. MacMahon.	Feb. 16, 1899.

OTHER INSTITUTIONS.

Athenæum Club (Committee).	The President.	<i>Ex officio.</i>
Lister Institute of Preventive Medicine.	Col. Bruce.	Dec. 10, 1903.
British Museum (Trustee).	The President.	<i>Ex officio.</i>
City and Guilds of London Institute (Governor).	"	"
Hunterian Museum (Trustee).	"	"
Sir John Soane's Museum.	Professor Church.	Jan. 28, 1897.
Joint Scholars' Board.	Professor Perry.	Nov. 27, 1902.
Advisory Board for Military Education.	Sir W. de W. Abney.	April 30, 1903.
Tropical Diseases Advisory Board.	Sir M. Foster.	Oct. 27, 1904.
Imperial Cancer Research Fund	Prof. J. R. Bradford. Prof. Watson Cheyne.	July 11, 1902. "

The President of the Royal Society is also *ex officio* an honorary Member of the Royal Irish Academy.

OTHER PUBLIC FUNCTIONS PERFORMED BY THE ROYAL SOCIETY.

1. Government Grant for Scientific Investigations.—Administrators.
For the Regulations see page 101, *supra*. For the History of this Grant see "Record," p. 158.

2. National Physical Laboratory.—Lessees under the Crown;
Trustees of an endowment by the late J. P. Gassiot for the purposes of
Kew Observatory. (For scheme of organization see p. 94.)

3. Lawes Agricultural Trust.—Electors of four members of the
Managing Committee.

4. Meteorological Office.

The present Meteorological Committee is the official descendant of the Meteorological Department of the Board of Trade, the history of which is given in the Report by the Committee of Inquiry nominated by the Royal Society, the Board of Trade, and the Admiralty, respectively, which was printed and presented to Parliament in 1866. This Department was superseded in 1867 by the Meteorological Committee of the Royal Society. In 1877 the Committee transferred their charge to the Meteorological Council, a paid body, consisting of a chairman and four members, nominated by the President and Council of the Royal Society, and approved by the Lords Commissioners of the Treasury, with the Hydrographer of the Admiralty as an official member. In 1905 the Meteorological Council was replaced by a Committee appointed by H.M. Treasury, and containing two representatives of the Royal Society.

5. Physick Garden of Chelsea.

The history of the early connection of the Physick Garden with the Royal Society will be found in the "Record," p. 147. At present the Society has only a representation upon the Committee of Management of the Garden.

6. Royal Observatory, Greenwich.—Visitors.

The Royal Society were appointed Visitors and Directors in 1710, a function which they continued to perform until the accession of King William IV, when, by the new warrant then issued, the President and six of the Fellows of the Royal Astronomical Society were added to the same number of the Royal Society to constitute the Board of Visitors, the President of the Royal Society being Chairman of the Board. A new warrant was granted by His Majesty King Edward VII in 1901.

7. Standard Weights and Measures.—Custodians.

The Imperial Standard Yard and Pound in actual use for all important comparisons are at the Standards Office. Four copies of each of them are deposited in other places in case of injury or loss of the standards. One set of copies is in the custody of the Royal Society.

LIST OF INSTITUTIONS

WHICH RECEIVE THE PHILOSOPHICAL TRANSACTIONS
OR PROCEEDINGS OF THE ROYAL SOCIETY.

Institutions marked **A** are entitled to receive Philosophical Transactions, Series A, and Proceedings, Series A.

Institutions marked **B** are entitled to receive Philosophical Transactions, Series B, and Proceedings, Series B.

Institutions marked **AB** are entitled to receive Philosophical Transactions, Series A and B, and both series of Proceedings.

Institutions marked *p* are entitled to receive both series of Proceedings only, and those marked *pa*, *pb*, the A or B Series of Proceedings only.

America (Central).

Mexico.

p. Sociedad Científica "Antonio Alzate."

America (North). (See UNITED STATES and CANADA.)

America (South).

Buenos Ayres.

AB. Museo Nacional.

Caracas.

B. University Library.

Cordova.

AB. Academia Nacional de Ciencias.

Demerara.

p. Royal Agricultural and Commercial Society, British Guiana.

La Plata.

B. Museo de la Plata.

Rio de Janeiro.

p. Observatorio.

Australia.

Adelaide.

p. Royal Society of South Australia.

Brisbane.

p. Royal Society of Queensland.

Hobart.

p. Royal Society of Tasmania.

Melbourne.

p. Observatory.

Australia—continued.

p. Royal Society of Victoria.

AB. University Library.

Sydney.

p. Australian Museum.

p. Geological Survey.

B. Linnean Society of New South Wales.

AB. Royal Society of New South Wales.

AB. University Library.

Austria.

Agram.

p. Jugoslavenska Akademija Znanosti i Umjetnosti.

p. Societas Historico-Naturalis Croatica.

Brünn.

AB. Naturforschender Verein.

Cracow.

AB. Kaiserliche Akademie der Wissenschaften.

Gratz.

AB. Naturwissenschaftlicher Verein für Steiermark.

Innsbruck.

AB. Das Ferdinandeum.

p. Naturwissenschaftlich-Medicinischer Verein.

Prague.

AB. Königliche Böhmisches Gesellschaft der Wissenschaften.

Trieste.

B. Museo di Storia Naturale.

p. Società Adriatica di Scienze Naturali.

Vienna.

p. Anthropologische Gesellschaft.

AB. Kaiserliche Akademie der Wissenschaften.

p. K.K. Geographische Gesellschaft.

AB. K.K. Geologische Reichsanstalt.

B. K.K. Naturhistorisches Hof-Museum.

B. K.K. Zoologisch-Botanische Gesellschaft.

p. Oesterreichische Gesellschaft für Meteorologie.

A. Von Kuffner'sche Sternwarte.

Belgium.

Brussels.

B. Académie Royale de Médecine.

AB. Académie Royale des Sciences.

B. Musée du Congo.

B. Musée Royal d'Histoire Naturelle de Belgique.

p. Observatoire Royal.

p. Société Belge de Géologie, de Paléontologie, et d'Hydrologie.

p. Société Malacologique de Belgique.

Belgium—continued.

Ghent.

AB. Université.

Liège.

AB. Société des Sciences.

p. Société Géologique de Belgique.

Louvain.

B. Laboratoire de Microscopie et de Biologie Cellulaire.

AB. Université.

Canada.

Fredericton, N.B.

p. University of New Brunswick.

Halifax, N.S.

p. Nova Scotian Institute of Science.

Hamilton.

p. Hamilton Association.

Kingston, Ontario.

AB. Queen's University.

Montreal.

AB. McGill University.

p. Natural History Society.

Ottawa.

AB. Geological Survey of Canada.

AB. Royal Society of Canada.

AB. University.

St. John, N.B.

p. Natural History Society.

Toronto.

p. Toronto Astronomical Society.

p. Canadian Institute.

AB. University.

Windsor, N.S.

p. King's College Library.

Cape Colony.

Cape Town.

A. Astronomical Observatory.

AB. South African Library.

B. South African Museum.

p. South African Philosophical Society.

Grahamstown.

p. Public Library.

Ceylon.

Colombo.

B. Museum.

Denmark.

Copenhagen.

AB. Kongelige Danske Videnskabernes Selskab.

Egypt.

Alexandria.

AB. Bibliothèque Municipale.

England and Wales.

Aberystwith.

AB. University College.

Bangor.

AB. University College of North Wales.

Birmingham.

AB. Central Free Library.

AB. University.

p. Philosophical Society.

Bolton.

p. Public Library.

Bristol.

p. Merchant Venturers' School.

AB. University College.

Cambridge.

AB. Philosophical Society.

p. Union Society.

AB. University Library.

Cardiff.

AB. Free Library.

AB. University College.

Chatham.

AB. Royal Engineers' Head Quarters.

Cooper's Hill.

AB. Royal Indian Engineering College.

Dudley

p. Dudley and Midland Geological and Scientific Society.

Essex.

p. Essex Field Club.

Falmouth.

p. Royal Cornwall Polytechnic Society.

Greenwich.

A. Royal Observatory.

Harpenden.

AB. Lawes Agricultural Trust.

Kew.

B. Royal Gardens.

England and Wales—continued.**Leeds.**

- p.* Philosophical Society.
- AB. University.

Liverpool.

- AB. Free Public Library.
- p.* Literary and Philosophical Society.
- A. Observatory.
- AB. University College.

London.

- AB. Admiralty.
- pa.* Anthropological Institute.
- A. Board of Trade: Electrical Standards Laboratory.
- p.* British Astronomical Association.
- AB. British Museum.
- AB. British Museum (Nat. Hist.).
- AB. Chemical Society.
- A. City and Guilds of London Institute.
- p.* "Electrician," Editor of the.
- B. Entomological Society.
- AB. Geological Society.
- AB. Geological Survey of Great Britain.
- p.* Geologists' Association.
- AB. Guildhall Library.
- A. Institution of Civil Engineers.
- A. Institution of Electrical Engineers.
- A. Institution of Mechanical Engineers.
- A. Institution of Naval Architects.
- p.* Iron and Steel Institute.
- AB. King's College.
- AB. King's Library.
- B. Linnean Society.
- p.* Lister Institute of Preventive Medicine.
- AB. London Institution.
- p.* London Library.
- A. Mathematical Society.
- p.* Meteorological Office.
- p.* Odontological Society.
- p.* Pharmaceutical Society.
- p.* Physical Society.
- p.* Quekett Microscopical Club
- p.* Royal Agricultural Society.
- p.* Royal Army Medical College.
- A. Royal Astronomical Society.
- B. Royal College of Physicians.
- B. Royal College of Surgeons.

England and Wales—continued.

- p.* Royal Engineers (for Libraries abroad, six copies).
- p.* Royal Engineers. Head Quarters Library. (*See* Chatham.)
- p.* Royal Geographical Society.
- p.* Royal Horticultural Society.
- p.* Royal Institute of British Architects.
- AB. Royal Institution of Great Britain.
- B.* Royal Medical and Chirurgical Society.
- p.* Royal Meteorological Society.
- p.* Royal Microscopical Society.
- p.* Royal Statistical Society.
- AB. Royal United Service Institution.
- A. "Science Abstracts."
- AB. Society of Arts.
- p.* Society of Biblical Archæology.
- p.* Society of Chemical Industry (London Section).
- pa.* Standard Weights and Measures Department.
- AB. University College.
- p.* Victoria Institute.
- AB. War Office.
- p.* War Office (Medical Department).
- B.* Zoological Society.

Manchester.

- AB. Free Library.
- AB. Literary and Philosophical Society.
- p.* Geological Society.
- AB. Victoria University.

Netley.

- p.* Royal Victoria Hospital.

Newcastle.

- AB. Armstrong College.
- AB. Free Library.
- p.* North of England Institute of Mining and Mechanical Engineers.
- p.* Society of Chemical Industry (Newcastle Section).

Norwich.

- p.* Norfolk and Norwich Literary Institution.

Nottingham.

- AB. Central Free Public Library.

Oxford.

- p.* Ashmolean Society.
- AB. Bodleian Library.
- AB. Radcliffe Library.
- A. Radcliffe Observatory.

Penzance.

- p.* Geological Society of Cornwall.

England and Wales—continued.**Plymouth.**

B. Marine Biological Association.

p. Plymouth Institution.

Richmond.

A. National Physical Laboratory, Observatory Department.

Salford.

p. Royal Museum and Library.

Stonyhurst.

p. The College.

Swansea.

AB. Royal Institution.

Teddington.

A. National Physical Laboratory.

Woolwich.

AB. Royal Artillery Library.

Finland.**Helsingfors.**

p. Societas pro Fauna et Flora Fennica.

AB. Société des Sciences.

France.**Bordeaux.**

p. Académie des Sciences.

p. Faculté des Sciences.

p. Société de Médecine et de Chirurgie.

p. Société des Sciences Physiques et Naturelles.

Caen.

p. Société Linnéenne de Normandie.

Cherbourg.

p. Société des Sciences Naturelles.

Dijon.

p. Académie des Sciences.

Lille.

p. Faculté des Sciences.

Lyons.

AB. Académie des Sciences, Belles-Lettres et Arts.

AB. Université.

Marseilles.

AB. Faculté des Sciences.

Montpellier.

AB. Académie des Sciences et Lettres.

B. Faculté de Médecine.

Nantes.

p. Société des Sciences Naturelles de l'Ouest de la France.

France—continued.

Paris.

- AB. Académie des Sciences de l'Institut.
- p. Association Française pour l'Avancement des Sciences.
- p. Bureau des Longitudes.
- A. Bureau International des Poids et Mesures.
- p. Commission des Annales des Ponts et Chaussées.
- p. Conservatoire des Arts et Métiers.
- p. Cosmos (M. L'ABBÉ VALETTE).
- AB. École des Mines.
- AB. École Normale Supérieure.
- AB. École Polytechnique.
- AB. Faculté des Sciences de la Sorbonne.
- B. Institut Pasteur.
- AB. Jardin des Plantes.
- A. L'Observatoire.
- p. Observatoire d'Astronomie Physique de Meudon.
- p. Revue Générale des Sciences.
- p. Revue Scientifique (MONS. H. DE VARIGNY).
- AB. Service Hydrographique de la Marine.
- p. Société de Biologie.
- AB. Société d'Encouragement pour l'Industrie Nationale.
- AB. Société de Géographie.
- p. Société de Physique.
- B. Société Entomologique.
- AB. Société Géologique.
- p. Société Mathématique.
- p. Société Météorologique de France.

Rennes.

- p. Université.

Toulouse.

- AB. Académie des Sciences.
- A. Faculté des Sciences.

Germany.

Berlin.

- A. Deutsche Chemische Gesellschaft.
- A. Die Sternwarte.
- p. Gesellschaft für Erdkunde.
- pa. Königliches Materialprüfungsamt.
- AB. Königliche Preussische Akademie der Wissenschaften.
- A. Physikalische Gesellschaft.

Bonn.

- AB. Universität.

Bremen.

- p. Naturwissenschaftlicher Verein.

Germany—*continued.*

Breslau.

- p.* Schlesische Gesellschaft für Vaterländische Kultur.

Brunswick.

- p.* Verein für Naturwissenschaft.

Carlsruhe. See Karlsruhe.

Charlottenburg.

- A.* Physikalisch-Technische Reichsanstalt.

Danzig.

- AB.* Naturforschende Gesellschaft.

Dresden.

- p.* Verein für Erdkunde.

Emden.

- p.* Naturforschende Gesellschaft.

Erlangen.

- AB.* Physikalisch-Medicinische Societät.

Frankfurt-am-Main.

- AB.* Senckenbergische Naturforschende Gesellschaft.

- p.* Zoologische Gesellschaft.

Frankfurt-am-Oder.

- p.* Naturwissenschaftlicher Verein.

Freiburg-im-Breisgau.

- AB.* Universität.

Giessen.

- AB.* Grossherzogliche Universität.

Görlitz.

- p.* Naturforschende Gesellschaft.

Göttingen.

- AB.* Königliche Gesellschaft der Wissenschaften.

Halle.

- AB.* Kaiserliche Leopoldino-Carolinische Deutsche Akademie der Naturforscher.

- p.* Naturwissenschaftlicher Verein für Sachsen und Thüringen.

Hamburg.

- p.* Naturhistorisches Museum.

- AB.* Naturwissenschaftlicher Verein.

Heidelberg.

- A.* Grossherzogliche Sternwarte, Astronomischer Institut.

- p.* Naturhistorisch-Medicinischer Verein.

- AB.* Universität.

Jena.

- AB.* Medicinisch-Naturwissenschaftliche Gesellschaft.

Germany—continued.

Karlsruhe.

p. Technische Hochschule.

Kiel.

A. Astronomische Nachrichten.

p. Naturwissenschaftlicher Verein für Schleswig-Holstein.

pa. Sternwarte.

AB. Universität.

Königsberg.

AB. Königliche Physikalisch-Ökonomische Gesellschaft.

Leipsic.

p. Annalen der Physik und Chemie.

p. Astronomische Gesellschaft.

AB. Königliche Sächsische Gesellschaft der Wissenschaften.

Magdeburg.

p. Naturwissenschaftlicher Verein.

Marburg.

AB. Universität.

Munich.

AB. Königliche Bayerische Akademie der Wissenschaften.

p. Zeitschrift für Biologie.

Münster.

AB. Königliche Theologische und Philosophische Akademie.

Potsdam.

A. Astrophysikalisches Observatorium.

Rostock.

AB. Universität.

Strasburg.

AB. Universität.

Tübingen.

AB. Universität.

Würzburg.

AB. Physikalisch-Medicinische Gesellschaft.

Greece.

Athens.

A. National Observatory.

Holland. (See NETHERLANDS.)

Hungary.

Buda-pest.

AB. Á Magyar Tudós Társaság. Die Ungarische Akademie der Wissenschaften.

p. Königl. Ungarische Geologische Anstalt.

Hungary—*continued.***Hermannstadt.**

- p.* Siebenbürgischer Verein für die Naturwissenschaften.

Klausenburg.

- AB.* Az Erdélyi Muzeum. Das Siebenbürgische Museum.

Schemnitz.

- p.* K. Ungarische Berg- und Forst-Akademie.

India.**Bombay.**

- AB.* Elphinstone College.
p. Government Observatory.
p. Royal Asiatic Society (Bombay Branch).

Calcutta.

- AB.* Asiatic Society of Bengal.
AB. Geological Museum.
p. Great Trigonometrical Survey of India.
AB. Indian Museum.
p. The Meteorological Reporter to the Government of India.

Madras.

- B.* Central Museum.
A. Observatory.

Roorkee.

- p.* Roorkee College.

Ireland.**Armagh.**

- A.* Observatory.

Belfast.

- AB.* Queen's College.

Cork.

- AB.* Queen's College.

Dublin.

- AB.* National Library of Ireland.
A. Observatory.
B. Royal College of Surgeons in Ireland.
AB. Royal Dublin Society.
AB. Royal Irish Academy.
AB. Trinity College.

Galway.

- AB.* Queen's College.

Italy.

Acireale.

- p.* Accademia di Scienze, Lettere ed Arti.

Bologna.

- AB.* Accademia delle Scienze dell' Istituto.

Catania.

- AB.* Accademia Gioenia di Scienze Naturali.

Florence.

- p.* Biblioteca Nazionale Centrale.
- AB.* Museo Botanico.
- p.* Reale Istituto di Studi Superiori.

Genoa.

- p.* R. Università.
- p.* Società Ligustica di Scienze Naturali e Geografiche.

Milan.

- AB.* Reale Istituto Lombardo di Scienze, Lettere ed Arti.
- AB.* Società Italiana di Scienze Naturali.

Modena.

- p.* Le Stazioni Sperimentali Agrarie Italiane.

Naples.

- p.* Istituto Zoologico, R. Università.
- p.* Società di Naturalisti.
- AB.* Società Reale, Accademia delle Scienze.
- B.* Stazione Zoologica (Dr. DOHRN).

Padua.

- p.* University.

Palermo.

- A.* Circolo Matematico.
- AB.* Consiglio di Perfezionamento (Società di Scienze Naturali ed Economiche).
- A.* Reale Osservatorio.

Pisa.

- p.* Il Nuovo Cimento.
- p.* Società Toscana di Scienze Naturali.

Rome.

- p.* Accademia Pontificia de' Nuovi Lincei.
- p.* Rassegna delle Scienze Geologiche in Italia.
- AB.* Reale Accademia dei Lincei.
- A.* Reale Ufficio Centrale di Meteorologia e di Geodinamica, Collegio Romano.
- p.* R. Comitato Geologico d' Italia.
- AB.* Società Italiana delle Scienze.
- A.* Specola Vaticana.

Italy—continued.**Sassari.**

p. Università. Istituto Fisiologico.

Siena.

p. Reale Accademia dei Fisiocritici.

Turin.

AB. Biblioteca Nazionale.

p. Laboratorio di Fisiologia.

AB. Reale Accademia delle Scienze.

Venice.

p. Ateneo Veneto.

AB. Reale Istituto Veneto di Scienze, Lettere ed Arti.

Japan.**Tokiô.**

p. Asiatic Society of Japan.

AB. Imperial University.

Java.**Batavia.**

p. K. Natuurkundige Vereeniging, Weltevreden.

Buitenzorg.

p. Jardin Botanique.

Luxembourg.**Luxembourg.**

p. Société des Sciences Naturelles.

Malta.

p. Public Library.

Mauritius.

A. Royal Alfred Observatory.

p. Royal Society of Arts and Sciences.

Netherlands.**Amsterdam.**

AB. Koninklijke Akademie van Wetenschappen.

p. K. Zoologisch Genootschap 'Natura Artis Magistra.'

Haarlem.

AB. Hollandsche Maatschappij der Wetenschappen.

p. Musée Teyler.

Leyden.

AB. University.

Rotterdam.

AB. Bataafsch Genootschap der Proefondervindelijke Wijsbe-
goerte.

Netherlands—continued.

Utrecht.

AB. Provinciaal Genootschap van Kunsten en Wetenschappen.

New Zealand.

Wellington.

AB. New Zealand Institute.

Norway.

Bergen.

AB. Bergenske Museum.

Christiania.

AB. Kongelige Norske Frederiks Universitet.

Tromsøe.

p. Museum.

Trondhjem.

AB. Kongelige Norske Videnskabers Selskab.

Philippine Islands.

Manila.

pb. Bureau of Government Laboratories.

Portugal.

Coimbra.

AB. Universidade.

Lisbon.

AB. Academia Real das Sciencias.

p. Secção dos Trabalhos Geologicos de Portugal.

Oporto.

p. Annaes de Sciencias Naturaes.

Russia.

Dorpat (Juriew.)

AB. Université.

Ekaterinoslav.

p. School of Mines.

Irkutsk.

p. Société Impériale Russe de Géographie (Section de la Sibérie Orientale).

Kazan.

AB. Imperatorsky Kazansky Universitet.

p. Société Physico-Mathématique.

Kharkoff.

p. Section Médicale de la Société des Sciences Expérimentales.
Université de Kharkow.

Kieff.

p. Société des Naturalistes.

Russia—continued.**Kronstadt.**

- p.* Compass Observatory.

Moscow.

- AB. Le Musée Public.
- B. Société Impériale des Naturalistes.

Odessa.

- p.* Société des Naturalistes de la Nouvelle-Russie.

Pulkowa.

- A. Nikolai Haupt-Sternwarte.

St. Petersburg.

- AB. Académie Impériale des Sciences.
- B. Archives des Sciences Biologiques.
- AB. Comité Géologique.
- AB. Ministère de la Marine.
- A. Observatoire Physique Central.

Scotland.**Aberdeen.**

- AB. University.

Edinburgh.

- AB. Advocates' Library.
- p.* Geological Society.
- p.* Royal College of Physicians (Research Laboratory).
- p.* Royal Medical Society.
- A. Royal Observatory.
- p.* Royal Physical Society.
- p.* Royal Scottish Society of Arts.
- AB. Royal Society.

Glasgow.

- AB. Mitchell Free Library.
- p.* Natural History Society.
- p.* Philosophical Society.
- AB. University.

Servia.**Belgrade.**

- p.* Académie Royale de Serbie.

Spain.**Cadiz.**

- A. Instituto y Observatorio de Marina de San Fernando.

Madrid.

- p.* Comisión del Mapa Geológico de España.
- AB. Real Academia de Ciencias.

Sweden.

Gottenburg.

AB. Kongl. Vetenskaps och Vitterhets Samhälle.

Lund.

AB. Universitet.

Stockholm.

A. Acta Mathematica.

AB. Kongliga Svenska Vetenskaps-Akademie.

AB. Sveriges Geologiska Undersökning.

Upsala.

AB. Universitet.

Switzerland.

Basel.

p. Naturforschende Gesellschaft.

Bern.

AB. Allgemeine Schweizerische Gesellschaft.

p. Naturforschende Gesellschaft.

AB. Schweizerische Naturforschende Gesellschaft.

Geneva.

AB. Institut National Genevois.

p. Journal de Chimie Physique.

AB. Société de Physique et d'Histoire Naturelle.

Lausanne.

p. Société Vandoise des Sciences Naturelles.

Neuchâtel.

p. Société des Sciences Naturelles.

Zürich.

AB. Das Schweizerische Polytechnikum.

p. Naturforschende Gesellschaft.

p. Sternwarte.

Tasmania.

Hobart.

p. Royal Society of Tasmania.

Transvaal.

Johannesburg.

AB. Meteorological Department, Observatory.

United States.

Albany.

AB. New York State Library.

Annapolis.

AB. Naval Academy.

United States—continued.

Austin (Texas).

- p.* Texas Academy of Sciences.

Baltimore.

- AB. Johns Hopkins University.

Berkeley.

- p.* University of California.

Boston.

- AB. American Academy of Sciences.
- B. Boston Society of Natural History.
- A. Technological Institute.

Brooklyn.

- AB. Brooklyn Library.

Cambridge (Mass.).

- AB. Harvard University.
- B. Museum of Comparative Zoology.

Chapel Hill (N.C.).

- p.* Elisha Mitchell Scientific Society.

Charleston.

- p.* Elliott Society of Science and Art of South Carolina.

Chicago.

- AB. Academy of Sciences.
- p.* Astrophysical Journal.
- p.* Field Museum of Natural History.
- A. Yerkes' Observatory (University of Chicago).

Davenport (Iowa).

- p.* Academy of Natural Sciences.

Granville (Ohio).

- p.* Denison University.—Journal of Comparative Neurology.

Ithaca (N.Y.).

- A. Journal of Physical Chemistry.
- p.* Physical Review (Cornell University).

Lawrence.

- p.* Kansas University.

Madison.

- p.* Wisconsin Academy of Sciences.

Mount Hamilton (California).

- A. Lick Observatory.

United States—continued.

New Haven (Conn.).

- AB. American Journal of Science.
- AB. Connecticut Academy of Arts and Sciences.

New York.

- p. American Geographical Society.
- A. American Mathematical Society.
- p. American Museum of Natural History.
- AB. Columbia College Library.
- B. New York Academy of Sciences.
- p. New York Medical Journal.

Philadelphia.

- AB. Academy of Natural Sciences.
- AB. American Philosophical Society.
- p. Franklin Institute.
- p. University of Pennsylvania.
- p. Wagner Free Institute of Science.

Rochester (N.Y.).

- p. Academy of Science.

St. Louis.

- p. Academy of Science.

Salem (Mass.).

- p. American Association for the Advancement of Science.
- AB. Essex Institute.

San Francisco.

- AB. California Academy of Sciences.

Washington.

- A. Carnegie Institute Solar Observatory.
- AB. Patent Office.
- AB. Smithsonian Institution.
- AB. United States Coast Survey.
- B. United States Commission of Fish and Fisheries.
- p. United States Department of Agriculture.
- A. United States Department of Agriculture (Weather Bureau).
- AB. United States Geological Survey.
- AB. United States Naval Observatory.

West Point (N.Y.).

- AB. United States Military Academy.
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CATALOGUE OF OBJECTS AND EXPERIMENTS EXHIBITED
AT THE CONVERSAZIONE HELD IN THE SOCIETY'S
APARTMENTS AT BURLINGTON HOUSE ON MAY 9,
1906.

1. *Exhibited by Mr. T. E. Heath, F.R.A.S.*

Stereoscopic Star Charts and Spectroscopic Key Maps.

2. *Exhibited by Sir Oliver Lodge, F.R.S., and Dr. Alexander Muirhead, F.R.S.*

Wireless Telegraphy Apparatus for Military Field Purposes.

3. *Exhibited by Prof. G. Forbes, F.R.S.*

Model of Naval Gunsight, giving correct elevation for any variations of muzzle velocity, air density, and time of flight, as arranged for the 6-inch B.L. Gun, Mark XI, under construction at Elswick for trial on H.M.S. "Africa."

4. *Exhibited by Mr. R. Kerr, F.R.A.S.*

A Torsion Spring for transference of Energy. (Exhibited on behalf of Prof. L. R. Wilberforce, of University College, Liverpool.)

5. *Exhibited by Mr. Joseph Goold.*

Vibration Experiments.

6. *Exhibited by Prof. W. C. McIntosh, F.R.S.*

Thirteen coloured plates (original) for Part III of the British Annelids, to be published by the Ray Society, 1907.

7. *Exhibited by Mr. J. Stanley Gardiner and Mr. H. P. Thomasset.*

Photographs illustrative of the Vegetation of the Seychelles Islands.

8. *Exhibited by Mr. J. Stanley Gardiner.*

Dredged Rocks off Providence Coral Reef, 844 fathoms (H.M.S. "Sealark.")

9. *Exhibited by Prof. John Milne, F.R.S.*

Seismograms of recent Earthquakes.

1. North-South and East-West components of the Formosa earthquake of March 16, 1906.
2. Two components of the Columbian earthquake of January 31, 1906.
3. An enlargement of the terminal vibrations of the upper part of Fig. 2.
- 4 and 5. Open diagrams of the same earthquake.
- 6 and 7. Open diagrams of the San Francisco earthquake of April 18, 1906.

10. *Exhibited by Royal Observatory, Edinburgh.*

Seismograph Records.

1. Indian earthquake, April 4, 1905.
2. Earthquake in Siberia, July 23, 1905.
3. Earthquake in Calabria, September 8, 1905.
4. Earthquake in Greece, November 8, 1905.
5. San Francisco earthquake, April 18, 1906.

11. *Exhibited by The Marine Biological Association.*

The Habits of some Fishes from the Inshore Waters.

12. *Exhibited by Mr. W. Duddell.*

Some Mechanical and Electrical Phenomena occurring in the Telephonic Transmission of Speech.

13. *Exhibited by Messrs. R. & J. Beck, Ltd.*

Ultimate Microscope Resolving Power with light of different wave lengths.

14. *Exhibited by The Director, Meteorological Office.*

1. Antarctic Meteorological Records with Charts and Diagrams prepared in connection with the discussion of the results of the Antarctic Expeditions.
2. Some Recent Meteorological Results.

15. *Exhibited by Messrs. Wallach Bros.*

Oxygen rescue apparatus and other appliances.

16. *Exhibited by Mr. Kenneth J. Tarrant, F.R.A.S.*

Photographs of Electrical Discharges, at atmospheric pressure and in vacuo.

17. *Exhibited by The Director of the Geological Survey of Great Britain.*

Geological Maps, recently issued by the Geological Survey and Museum.

18. *Exhibited by Mr. Edwin Edser and Mr. Edgar Senior.*

Specimens of Colour Photographs, and Photomicrographs.

19. *Exhibited by Mr. C. V. Boys, F.R.S.*

A Gas Calorimeter.

20. *Exhibited by Sir James Dewar, F.R.S.*

Metallic Jacketed Vacuum Vessels.

21. *Exhibited by Mr. J. E. Stead, F.R.S.*

A triple alloy of Tin—Antimony—Arsenic, polished and etched, showing bright curved crystals imbedded in a soft matrix or eutectic.

22. *Exhibited by Mr. W. Rosenhain.*

Improved Metallurgical Microscope.

23. *Exhibited by The Rt. Hon. Lord Blythswood.*

Photographs of certain Arc Spectra.

24. *Exhibited by Dr. O. Silberrad and Mr. H. A. Phillips.*

A series of Picrates.

25. *Exhibited by Mr. Julius Rheinberg.*

1. Production of Achromatic Interference Bands by the Double Grating Method.

2. Photographs chiefly of Diatoms, taken by Dr. A. Köhler with the Zeiss apparatus for Ultra-violet Light.

26. *Exhibited by Mr. L. H. Walter.*

New Magnetic Detector, giving both alternating currents for telephonic reception and continuous currents for recording or visual signals.

27. *Exhibited by Dr. W. Marshall Watts.*

Binocular Spectroscope.

28. *Exhibited by Sir William Crookes, F.R.S.*

1. The Ultra-violet Spectra of the Metals, photographed with a quartz train of five double prisms. The spectrum of pure iron used as a standard.
2. Stereoscopic Photographs, taken by Sir W. Crookes on the occasion of the visit of the British Association to South Africa in the autumn of 1905.

29. *Exhibited by Mr. Cecil Warburton.*

Berlese's apparatus for capturing minute insects and arachnids.

30. *Exhibited by Rev. A. L. Cortie, S.J., F.R.A.S.*

Photographs of the Solar Corona, 1905, August 30.

31. *Exhibited by The Solar Physics Observatory, South Kensington.*

1. Photographs illustrating the Eclipse Camp at Palma, Majorca (August 30th, 1905), and some of the results obtained.
2. Examples of stellar spectra taken with the 6-inch two-prism prismatic camera.
3. Some photographs taken with the spectro-heliograph.
4. Curves to illustrate long period barometric changes in operation in India, East Indies, Australia, and South America.
5. Photographs and diagrams illustrating recent work done on the orientation of some British Stone Circles.

32. *Exhibited by The Royal Astronomical Society.*

Six photographs of the Milky Way taken in 1905 by Professor E. E. Barnard at Mount Wilson, California.

33. *Exhibited by The Astronomer Royal.*

Photographic Prints of the Total Solar Eclipse of 1905, August 30,
from negatives taken at Sfax, Tunisia.

34. *Exhibited by Mr. G. F. Herbert Smith.*

A Refractometer for Liquids.

35. *Exhibited by Prof. W. F. Barrett, F.R.S.*

Entoptiscope, for the self-examination of obscurities and defects
within the eye.

36. *Exhibited by Dr. G. T. Moody.*

Specimens illustrating the indifference of Oxygen towards Iron
in presence of water and the effect of the admission of
Carbonic Acid.

37. *Exhibited by The Royal Microscopical Society.*

Micro-Daguerreotypes of Blood, Milk and Crystals, made by
Léon Foucault, in 1844.

38. *Exhibited by Dr. A. S. Woodward, F.R.S.*

Hind limb of the gigantic extinct Marsupial, *Diprotodon australis*,
From Lake Callabonna, South Australia.

39. *Exhibited by Mr. J. E. S. Moore and Mr. C. E. Walker.*

Recent Researches in Cell-Division.

40. *Exhibited by Dr. Albert A. Gray.*

Series of Stereoscopic Photographs of the Membranous Labyrinth
illustrating the comparative anatomy of the organ.

41. *Exhibited by Dr. G. C. Chubb.*

Yolk-Nucleus in the Oocyte of Antedon.

42. Exhibited by Prof. Wyndham Dunstan, F.R.S.

1. New or rare minerals from Ceylon.

- (1) *Geikielite*; (2) *Picroilmenite*; (3) *Pleonaste* (*Ceylonite*); (4) *Zirkelite*; (5) *Tscheffkinite*; (6) *Æschynite*; (7) *Thorianite*; (8) *Thorianite from Galle*; (9) *Uraninite*; (10) *Thorite*; (11) *Monazite*; (12) *Allanite*; (13) *Fergusonite*; (14) *Sand from Niriella*. Containing ilmenite, garnet, zircon, rutile, monazite, cassiterite, thorianite and gold.

2. Minerals from Canada.

- (15) *Cobalt, nickel and silver ore*. Discovered recently at Haileybury, 227 miles north of Toronto.

3. Cyanogenetic Plants.

- (1) *Phaseolus lunatus* from Mauritius, Java and India; (2) *Flax* (*Linum usitatissimum*); (3) "Sweet" and "bitter" cassava *Manihot* (sp.).

43. Exhibited by The Director, Royal Botanic Gardens, Kew.

1. Precocious Flowering of Plants. (Exhibited by Mr. W. B. Hemsley, F.R.S.)

- (1) Seedling mahogany tree in flower when about six inches high. Leaves simple instead of pinnate; flowers very similar to those of the adult tree; (2) Seedling *Ailanthus glandulosa* in flower when about three inches high. Leaves trifoliolate instead of multifoliolate; flowers male; (3) Lilac flowering from the young suckers, with or without leaves; flowers normal in structure, fragrant. (4) Coco-nut flowering on its appearance from the shell of the seed.

2. Exalbuminous Grass-seeds. (Exhibited by Dr. Otto Stapf.)

44. Exhibited by Mr. F. J. Lewis.

Late Glacial and Post Glacial Plant Remains from the Scottish Peat Deposits and from Cross Fell.

45. Exhibited by Dr. P. E. Shaw.

An Electrical Measuring Machine.

46. Exhibited by M. E. G. Rivers, I.S.O., M.I.C.E.

A new Electric Heater.

47. Exhibited by The Director of the National Physical Laboratory.

1. Photomicrographs of the polished and etched surface of specimens of Iron and Steel taken during the progress of Alternating Stress Tests.
2. Photomicrographs.
 - (1) Series of nickel-carbon-manganese-iron alloys.
 - (2) Grey and white cast irons.
 - (3) Sound and faulty welds of iron plates.
 - (4) A mild steel bar rendered coarsely crystalline at the exterior.
 - (5) A sheared mild steel plate.
 - (6) Thin and thick copper cables.
 - (7) A phosphor bronze eutectic.
3. An apparatus for tests on the strength of materials at very high temperatures.
4. Picou Permeameter. (By permission of Mr. J. H. Agar Baugh.)
5. Bifilar Galvanometer free from zero creep.

**48. Exhibited by Mr. G. W. Lamplugh, F.R.S.*

The Batoka Gorge of the Zambesi River.

**49. Exhibited by Prof. Silvanus P. Thompson, F.R.S.*

Electric Production of Nitrates from the Atmosphere.

THE CROONIAN LECTURES.

LIST OF LECTURERS AND SUBJECTS.

1738. Alexander Stuart.
"On the Motion of the Heart, founded on some Anatomical
Observations and Experiments."
Phil. Trans., Vol. 40, Supplement; Vol. 41, p. 675.
1739. Frank Nicholls.
"An Enquiry into Muscular Motion."
Journal Book, Vol. XVIII. p. 70.
1740. Alexander Stuart.
"On the Peristaltic Motion of the Intestines."
Journal Book, Vol. XVIII. p. 227—9
1740. Alexander Stuart.
Microscopical Observations on several parts of live Frogs."
Journal Book, Vol. XVIII. p. 290.
1741. James Douglas.
"Description of the several Muscles, Membranes and parts
belonging to the Uvula of the Palate, and concerned in its
action; as also of the several parts subservient to the uses
of the Tuba Eustachiana."
Journal Book, Vol. XVIII. p. 377.
1742. James Douglas.
"Description and Structure of the Human Bladder, with
the Uses of its Muscles and Membranes."
Journal Book, Vol. XVIII. p. 419.
- 1744.* James Parsons.
"An Introductory Discourse on Muscular Motion."
Phil. Trans., Vol. 43, Supplement.
1745. James Parsons.
"On Muscular Motion." Phil. Trans., Vol. 43, Supplement.
1746. James Parsons.
"Description of the several Muscles of the Face; with their
particular Functions and Uses."
Phil. Trans., Vol. 44, Part I., Supplement.

* Lecture revived, "the deficiency of the Fund being made good by the Rents."

1747. Browne Langrish.

"On the Theory of Muscular Motion."

Phil. Trans., Vol. 44, Part II., Supplement.

1750. James Parsons.

"On Muscular Motion."

Journal Book, Vol. XXI. p. 357.

1751. James Parsons.

"Critical Remarks upon the Motion and Uses of the Human Pelvis."

Journal Book, Vol. XXI. pp. 641, 652.

1752 and 1753. Not recorded.

1754 to 1758. Charles Morton.

Minutes of Council, Vol. IV. pp. 168, 189 :
and Annual Accounts.

1759 and 1760. Not recorded.

1761. Charles Morton. (?)

Annual Accounts.

1762 to 1774. Not recorded.

1775 and 1776. John Hunter.

Minutes of Council, Vol. VI. pp. 283, 335.

1777 to 1781. John Hunter.

"On the Construction and Application of Muscles and the Power by which they are actuated."

Journal Book, Vol. XXXI. p. 194 :
and Annual Accounts, 1781.

1782. John Hunter.

"On the Density and Firmness of a Muscle as contributing to its Strength and Agility."

Journal Book, Vol. XXXI. p. 194.

1783. Not recorded.

1784. Foart Simmons.

"On the Irritability of the Muscular Fibres."

Journal Book, Vol. XXXI. p. 642.

1785. Edward Whittaker Grey.

"An Examination into Haller's Theory of Muscular Motion."

Journal Book, Vol. XXXII. p. 259.

1786. Edward Whittaker Grey.

"On the Effects of different kinds of Salts applied as Stimulants on the Muscles."

Journal Book, Vol. XXXII. p. 468.

1787. George Fordyce.

"On Muscular Motion."

Phil. Trans., Vol. 78, p. 23.

1788. Sir Gilbert Blane, Bart. .
"On the Nature of the Muscles, and on the Theory of Muscular Motion."
Journal Book, Vol. XXXIII. p. 268.
1789. Sir William Blizard.
"On the Theory of Muscular Motion."
Journal Book, Vol. XXXIV. p. 9.
1790. Sir Everard Home, Bart.
"On the Mechanism employed in producing Muscular Motion."
Journal Book, Vol. XXXIV. p. 200.
1791. Matthew Baillie.
"A general view of the Nature of the Muscles, and an enumeration of the most striking facts connected with the Theory of their Motion."
Journal Book, Vol. XXXIV. p. 419.
1792. Not recorded.
1793. Sir Everard Home, Bart.*
"On Mr. Hunter's Experiments to ascertain whether the Crystalline Humour of the Eye be muscular."
Journal Book, Vol. XXXV. p. 166.
1794. Sir Everard Home, Bart.
"On the Crystalline Humour of the Eye." Phil. Trans. 1795
1795. Sir Everard Home, Bart.
"On the Mechanism employed in producing Muscular Motion."
Phil. Trans. 1795.
1796. Sir Everard Home, Bart.
"On the Crystalline Humour of the Eye." Phil. Trans. 1796.
1797. John Abernethy.
"A general Review of the latest Opinions relative to Animal Life and Motion." Journal Book, Vol. XXXVI. p. 340.
1798. Sir Everard Home, Bart.
"Experiments and Observations upon the Structure of Nerves."
Phil. Trans. 1799.
1799. Sir Everard Home, Bart.
"On the Structure and Uses of the Membrana Tympani."
Phil. Trans. 1800.
1800. Sir Everard Home, Bart.
"On the Irritability of Nerves." Phil. Trans. 1801.

* The decease of Mr. Hunter took place before the Lecture, on which he was engaged by appointment of the Council, was completed.

1801. Sir Everard Home, Bart.
 "On the power of the Eye to adjust itself to different distances
 when deprived of the Crystalline Lens."
 Phil. Trans. 1802.
1802. Not recorded.
1803. John Pearson.
 "On Muscular Motion."
 Journal Book, Vol. XXXVIII. p. 137.
1804. Sir Anthony Carlisle.
 "On Muscular Motion."
 Phil. Trans. 1805.
1805. Sir Anthony Carlisle.
 "On the Arrangement and Mechanical Action of the Muscles
 of Fishes."
 Phil. Trans. 1806.
1806. John Pearson.
 "Remarks on Muscular Power, and on some of the circumstances
 by which it is increased, diminished, or finally abolished."
 Journal Book, Vol. XXXIX. p. 176.
1807. Sir Anthony Carlisle.
 "On the Natural History and Chemical Analysis of the sub-
 stances which constitute the Muscles of Animals."
 Journal Book, Vol. XXXIX. p. 451.
1808. Thomas Young.
 "On the Functions of the Heart and Arteries."
 Phil. Trans. 1809.
1809. William Hyde Wollaston.
 "Observations on the Mode of Action of Voluntary Muscles,
 and on the causes which derange, and assist, the Action of
 the Heart and Blood Vessels."
 Phil. Trans. 1810.
1810. Benjamin Collins Brodie.
 "Physiological Researches, respecting the Influence of the
 Brain on the Action of the Heart, and on the Generation of
 Animal Heat."
 Phil. Trans. 1811.
- 1811 and 1812. Not recorded.
1813. Benjamin Collins Brodie.
 "On the Influence of the Nervous System on the Action of the
 Muscles in general and of the Heart in particular."
 Journal Book, Vol. XII. p. 347.
- 1814 to 1816. Not recorded.
1817. Sir Everard Home, Bart.
 "On the Changes the Blood undergoes in the act of Coagulation."
 Phil. Trans. 1818.

1818. Sir Everard Home, Bart.

"On the Conversion of Pus into Granulations, or New Flesh."

Phil. Trans. 1819.

1819. Sir Everard Home, Bart.

"A further Investigation of the component parts of the Blood."

Phil. Trans. 1820.

1820. Sir Everard Home, Bart.

"Microscopical Observations on the following subjects:—On the Brain and Nerves; showing that the Materials of which they are composed exist in the Blood; on the Discovery of Valves in the branches of the *vas brevis*, lying between the villous and muscular coats of the Stomach; on the Structure of the Spleen."

Phil. Trans. 1821.

1821. Sir Everard Home, Bart.

"On the Anatomical Structure of the Eye; illustrated by Microscopical Drawings, executed by F. Bauer."

Phil. Trans. 1822.

1822. Francis Bauer.

"Microscopical Observations on the Suspension of the Muscular Motions of the *Vibrio Tritici*."

Phil. Trans. 1823.

1823. Sir Everard Home, Bart.

"On the Internal Structure of the Human Brain, when examined in the Microscope, as compared with that of Fishes, Insects and Worms."

Phil. Trans. 1824.

1824. Sir Everard Home, Bart.

"On the existence of Nerves in the Placenta."

Phil. Trans. 1825.

1825. Sir Everard Home, Bart.

"On the Structure of a Muscular Fibre from which are derived its Elongation and Contraction."

Phil. Trans. 1826.

1826. Sir Everard Home, Bart.

"An Enquiry into the mode by which the Propagation of the Species is carried on, in the Common Oyster, and in the large Fresh-water Muscle."

Phil. Trans. 1827.

1827. Sir Everard Home, Bart.

"On the Muscles peculiar to Organs of Sense in particular Quadrupeds and Fishes."

Journal Book, Vol. XLV. p. 143.

1828. Not appointed.

1829. Sir Everard Home, Bart.

"A Report on the Peculiarities met with in the Stomach of the Zariifa."

Journal Book, Vol. XLV. p. 580.

1830 to 1856. Not appointed.

1857. James Paget.
 "On the Cause of the Rhythmic Action of the Heart."
 Proceedings, Vol. 8.
1858. Thomas Henry Huxley.
 "On the Theory of the Vertebrate Skull." Proceedings, Vol. 9.
1859. Not appointed.
1860. James Bell Pettigrew.
 "On the Arrangement of the Muscular Fibres of the Ventricular Portion of the Heart of the Mammal."
 Proceedings, Vol. 10.
 Phil. Trans., 1864.
1861. Charles Édouard Brown-Séquard.
 "On the Relations between Muscular Irritability, Cadaveric Rigidity, and Putrefaction." Proceedings, Vol. 11.
1862. Albert Kölliker.
 "On the Termination of Nerves in Muscles, as observed in the Frog: and on the disposition of the Nerves in the Frog's Heart." Proceedings, Vol. 12.
1863. Joseph Lister.
 "On the Coagulation of the Blood." Proceedings, Vol. 12.
1864. Hermann Helmholtz.
 "On the Normal Motions of the Human Eye in relation to Binocular Vision." Proceedings, Vol. 13.
1865. Lionel S. Beale.
 "On the ultimate Nerve-fibres distributed to Muscle and some other Tissues, with Observations upon the Structure and probable Mode of Action of a Nervous Mechanism."
 Proceedings, Vol. 14.
1866. Not appointed.
1867. J. S. Burdon-Sanderson.
 "On the Influence exercised by the Movements of Respiration on the Circulation of the Blood." Phil. Trans., Vol 157.
1868. Not appointed.
1869. Not appointed.
1870. Augustus V. Waller.
 "On the Results of the Method, introduced by the Author, of investigating the Nervous System, more especially as applied to the Elucidation of the Functions of the Pneumogastric and Sympathetic Nerves in Man."
 Proceedings, Vol. 18.
- 1871 and 1872. Not appointed.
1873. Benjamin Ward Richardson.
 "On Muscular Irritability after Systemic Death."
 Proceedings, Vol. 21.

1874. David Ferrier.
"The Localization of Function in the Brain."
Proceedings, Vol. 22 (Abstr.).
1875. David Ferrier.
"Experiments on the Brain of Monkeys. Second Series."
Phil. Trans. 1875.
1876. G. J. Romanes.
"Preliminary Observations on the Locomotor System of
Medusæ."
Phil. Trans. 1876.
1877. J. S. Burdon-Sanderson and F. J. M. Page.
"On the Mechanical Effects, and on the Electrical Disturb-
ance, consequent on Excitation of the Leaf of *Dionæa*
muscipula."
Proceedings, Vol. 25.
1878. H. N. Moseley.
"On the Structure of the Stylasteridæ: a Family of the
Hydroid Stony Corals."
Phil. Trans. 1878.
1879. W. K. Parker.
"On the Structure and Development of the Skull in the
Lacertilia. Part I. On the Skull of the Common Lizards
(*Lacerta agilis*, *L. viridis*, and *Zootoca vivipara*)."
Phil. Trans. 1879.
1880. Rev. S. Haughton.
"On some Elementary Principles in Animal Mechanics, No. IX.
The Relation between the Maximum Work done, the Time
of Lifting, and the Weights lifted by the Arms."
Proceedings, Vol. 30.
1881. G. J. Romanes and J. C. Ewart.
"Observations on the Locomotor System of Medusæ."
Phil. Trans. 1881.
1882. W. H. Gaskell.
"On the Rhythm of the Heart of the Frog, and on the Nature
of the Action of the Vagus Nerve."
Phil. Trans. 1882.
1883. H. N. Martin.
"On the Direct Influence of Gradual Variations of Temperature
upon the Rate of Beat of the Dog's Heart."
Phil. Trans. 1883.
- 1884 and 1885. Not appointed.
1886. L. C. Wooldridge.
"The Coagulation of the Blood."
Proceedings, Vol. 40.
1887. H. G. Seeley.
"On *Pareiasaurus bombidens* (Owen) and the Significance of
its Affinities to Amphibians, Reptiles, and Mammals."
Phil. Trans., B, 1888.
1888. W. Kühne (Heidelberg).
"Ueber die Entstehung der Vitalen Bewegung."
Proceedings, Vol. 44.

1889. Dr. Roux (Institut Pasteur).
 "Les Inoculations Préventives." Proceedings, Vol. 46.
1890. H. Marshall Ward.
 "The Relations between Host and Parasite in certain Epidemic Diseases of Plants." Proceedings, Vol. 47.
1891. Francis Gotch and Victor Horsley.
 "On the Mammalian Nervous System; its Functions and their Localisation determined by an Electrical Method." Phil. Trans., B, Vol. 182.
1892. Angelo Mosso (Turin).
 "Les Phénomènes psychiques et la Température du Cerveau." Phil. Trans., B, Vol. 183.
1893. Rudolf Virchow (Berlin).
 "The Position of Pathology among Biological Studies." Proceedings, Vol. 53.
1894. S. Ramón y Cajal (Madrid).
 "La fine Structure des Centres Nerveux." Proceedings, Vol. 55.
1895. T. W. Engelmann (Utrecht).
 "On the Nature of Muscular Contraction." Proceedings, Vol. 57.
1896. Augustus D. Waller.
 "Observations on Isolated Nerve." Phil. Trans., B, Vol. 188.
1897. Charles S. Sherrington.
 "The Mammalian Spinal Cord as an Organ of Reflex Action." Phil. Trans., B, Vol. 190.
1898. Wilhelm Pfeffer (Leipzig).
 "The Nature and Significance of Functional Metabolism in the Plant." Proceedings, Vol. 63.
1899. J. S. Burdon Sanderson.
 "On the Relation of Motion in Animals and Plants to the Electrical Phenomena which are associated with it." Proceedings, Vol. 65.
1900. Paul Ehrlich (Frankfort-on-M.).
 "On Immunity with Special Reference to Cell Life." Proceedings, Vol. 66.
1901. C. Lloyd Morgan.
 "Studies in Visual Sensation." Proceedings, Vol. 68.
1902. Arthur Gamgee.
 "On certain Chemical and Physical Properties of Hæmoglobin." Proceedings, Vol. 70.
1903. C. Timiriazeff.
 "The Cosmical Function of the Green Plant." Proceedings, Vol. 72.
1904. Ernest Henry Starling and William Maddock Bayliss.
 "The Chemical Regulation of the Secretory Process." Proceedings, Vol. 73.
1905. William Bate Hardy.
 "On the Globulins."
1906. John Newport Langley.
 "On Nerve Endings and on Special Excitable Substances in Cells." Proceedings, B, Vol. 78.

THE BAKERIAN LECTURES.

LIST OF LECTURERS AND SUBJECTS.

1775. Peter Woulfe.

“Experiments made in order to ascertain the nature of some Mineral Substances, and in particular to see how far the Acids of Sea-Salt and of Vitriol contribute to Mineralize Metallic and other Substances.”—Part I.
Journal Book, Vol. XXIX. p. 135.

1776 and 1777. Peter Woulfe.

1778. John Ingen-Housz.

“Electrical Experiments to explain how far the Phenomena of the Electrophorus may be accounted for by Dr. Franklin’s Theory of Positive and Negative Electricity.”
Phil. Trans., Vol. 68.

1779. John Ingen-Housz.

“Improvements in Electricity.” Phil. Trans., Vol. 69.

1780. Tiberius Cavallo.

“Thermometrical Experiments and Observations.”
Phil. Trans., Vol. 70.

1781. Tiberius Cavallo.

“An Account of some Thermometrical Experiments.”
Phil. Trans., Vol. 71.

1782. Tiberius Cavallo.

“An Account of some Experiments relating to the Property of Common and Inflammable Airs of pervading the Pores of Paper.”
Journal Book, Vol. XXXI. p. 203.

1783. Tiberius Cavallo.

“Description of an improved Air Pump.”
Journal Book, Vol. XXXI. p. 401.

1784. Tiberius Cavallo.

“An Account of some Experiments made with the new improved Air Pump.” Journal Book, Vol. XXXI. p. 631.

1785. Tiberius Cavallo.

“Magnetical Experiments and Observations.”
Phil. Trans., Vol. 76.

1786. Tiberius Cavallo.
 "Magnetical Experiments and Observations."
 Phil. Trans., Vol. 77.
1787. Tiberius Cavallo.
 "Of the Methods of manifesting the Presence, and ascertaining
 the Quality, of small Quantities of Natural or Artificial
 Electricity."
 Phil. Trans., Vol. 78.
1788. Tiberius Cavallo.
 "On an Improvement in the Blow Pipe."
 Journal Book, Vol. XXXIII. p. 257.
1789. Tiberius Cavallo.
 "Magnetical Experiments and Observations."
 Journal Book, Vol. XXXIV. p. 3.
1790. Tiberius Cavallo.
 "A Description of a new Pyrometer."
 Journal Book, Vol. XXXIV. p. 208.
1791. Tiberius Cavallo.
 "On the Method of Measuring Distances by means of Telescopes
 furnished with Micrometers."
 Journal Book, Vol. XXXIV. p. 429.
1792. Tiberius Cavallo.
 "An Account of the Discoveries concerning Muscular Motion,
 which have been lately made, and are commonly known by
 the name of Animal Electricity."
 Journal Book, Vol. XXXIV. p. 609.
1793. George Fordyce.
 "An Account of a New Pendulum."
 Phil. Trans. 1794.
1794. Samuel Vince.
 "Observations on the Theory of the Motion and Resistance of
 Fluids; with a Description of the Construction of Experi-
 ments, in order to obtain some fundamental Principles."
 Phil. Trans. 1795.
- 1795 and 1796. Samuel Vince. (?)
1797. Samuel Vince.
 "Experiments upon the Resistance of Bodies moving in Fluids."
 Phil. Trans. 1798.
1798. Samuel Vince.
 "Observations upon an unusual Horizontal Refraction of the
 Air; with Remarks on the Variations to which the lower
 Parts of the Atmosphere are sometimes subject."
 Phil. Trans. 1799.

1799. Samuel Vince. (?)
1800. Thomas Young.
"On the Mechanism of the Eye." Phil. Trans. 1801.
1801. Thomas Young.
"On the Theory of Light and Colours." Phil. Trans. 1802.
1802. William Hyde Wollaston.
"Observations on the Quantity of Horizontal Refraction; with
Method of measuring the Dip at Sea." Phil. Trans. 1803.
1803. Thomas Young.
"Experiments and Calculations relative to Physical Optics."
Phil. Trans. 1804.
1804. Samuel Vince.
"Observations on the Hypotheses which have been assumed to
account for the cause of Gravitation from Mechanical
Principles." Journal Book, Vol. XXXVIII. p. 334.
1805. William Hyde Wollaston.
"On the Force of Percussion." Phil. Trans. 1806.
1806. Sir Humphry Davy, Bart.
"On some Chemical Agencies of Electricity." Phil. Trans. 1807.
1807. Sir Humphry Davy, Bart.
"On some new Phenomena of Chemical Changes produced by
Electricity, particularly the Decomposition of the fixed
Alkalies, and the Exhibition of the new Substances which
constitute their Bases." Phil. Trans. 1808.
1808. Sir Humphry Davy, Bart.
"An Account of some new Analytical Researches on the Nature
of certain Bodies, particularly the Alkalies, Phosphorus,
Sulphur, Carbonaceous Matter, and the Acids hitherto
undecomposed; with some general Observations on
Chemical Theory." Phil. Trans. 1809, pp. 39, 450.
1809. Sir Humphry Davy, Bart.
"On some new Electro-Chemical Researches, on various objects,
particularly the Metallic Bodies from the Alkalies and
Earths; and on some Combinations of Hydrogen." Phil. Trans. 1810.
1810. Sir Humphry Davy, Bart.
"On some of the Combinations of Oxymuriatic Gas and
Oxygen, and on the Chemical Relations of these Principles
to Inflammable Bodies." Phil. Trans. 1811.
1811. Sir Humphry Davy, Bart. (?)

1812. William Hyde Wollaston.

"On the Elementary Particles of certain Crystals."

Phil. Trans. 1813.

1813. William Thomas Brande.

"On some new Electro-Chemical Phenomena."

Phil. Trans. 1814.

1814 to 1818. No record.

1819. William Thomas Brande.

"On the Composition and Analysis of the inflammable Gaseous Compounds resulting from the destructive Distillation of Coal and Oil; with some Remarks on their relative heating and illuminating power."

Phil. Trans. 1820.

1820. Captain Henry Kater.

"On the best kind of Steel, and form, for a Compass Needle."

Phil. Trans. 1821.

1821. Captain Edward Sabine.

"An Account of Experiments to determine the Amount of the Dip of the Magnetic Needle in London, in August 1821; with Remarks on the Instruments which are usually employed in such determinations."

Phil. Trans. 1822.

1822. No record.

1823. John F. W. Herschel.

"On certain Motions produced in Fluid Conductors when transmitting the Electric Current."

Phil. Trans. 1824.

1824 to 1825. No record.

1826. Sir Humphry Davy, Bart.

"On the Relations of Electrical and Chemical Changes."

Phil. Trans. 1826.

1827. George Pearson.

"Researches to discover the Faculties of Pulmonary Absorption with respect to Charecoal."

Journal Book, Vol. XLV. p. 201.

1828. William Hyde Wollaston.

"On a Method of rendering Platina malleable."

Phil. Trans. 1829.

1829. Michael Faraday.

"On the Manufacture of Glass for Optical Purposes."

Phil. Trans. 1830.

1830. No record.

1831. No record.
1832. Michael Faraday.
"Experimental Researches in Electricity ; Second Series."
Abstracts of Papers, Vol. III. p. 95.
1833. Samuel Hunter Christie.
"Experimental Determination of the Laws of Magneto-Electric
Induction in different masses of the same metal, and of its
intensity in different metals."
Abstracts of Papers, Vol. III. p. 177.
1834. Not appointed.
1835. Charles Lyell.
"On the Proofs of a gradual Rising of the Land in certain parts
of Sweden." Phil. Trans. 1835.
1836. John William Lubbock.
"On the Tides of the Port of London." Phil. Trans. 1836.
1837. William Henry Fox Talbot.
"Further Observations on the Optical Phenomena of Crystals."
Phil. Trans. 1837.
1838. James Ivory.
"On the Theory of the Astronomical Refractions."
Phil. Trans. 1838.
1839. William Snow Harris.
"Inquiries concerning the Elementary Laws of Electricity."
Phil. Trans. 1839.
1840. George Biddell Airy.
"On the Theoretical Explanation of an apparent new Polarity
of Light." Phil. Trans. 1840.
1841. George Newport.
"On the Organs of Reproduction and the Development of the
Myriapoda." Phil. Trans. 1841.
1842. James David Forbes.
"On the Transparency of the Atmosphere and the Law of
Extinction of the Solar Rays in passing through it."
Phil. Trans. 1842.
1843. Charles Wheatstone.
"An Account of several new Instruments and Processes for
determining the Constants of a Voltaic Circuit."
Phil. Trans. 1843.

1844. Richard Owen.

"A Description of certain Belemnites, preserved, with a great proportion of their soft parts, in the Oxford Clay, at Christian-Malford, Wilts." Phil. Trans. 1844.

1845. Charles Giles Bridle Daubeny.

"Memoir on the Rotation of Crops, and on the Quantity of Inorganic Matters abstracted from the Soil by various Plants under different circumstances." Phil. Trans. 1845.

1846. James David Forbes.

"Illustrations of the Viscous Theory of Glacier Motion." Phil. Trans. 1846.

1847. William Robert Grove.

"On certain Phenomena of Voltaic Ignition and the Decomposition of Water into its constituent Gases by Heat." Phil. Trans. 1847.

1848. Rev. William Whewell.

"Researches on the Tides." Thirteenth Series. On the Tides of the Pacific, and on the Diurnal Inequality. Phil. Trans. 1848.

1849. Michael Faraday.

"Experimental Researches in Electricity." Twenty-Second Series. Phil. Trans. 1849.

1850. Thomas Graham.

"On the Diffusion of Liquids." Phil. Trans. 1850.

1851. Michael Faraday.

"Experimental Researches in Electricity." Twenty-Fourth Series. Phil. Trans. 1851.

1852. Charles Wheatstone.

"Contributions to the Physiology of Vision. Part II. On some remarkable and hitherto unobserved Phenomena of Binocular Vision (continued)." Phil. Trans. 1852.

1853. Col. Edward Sabine.

"On the Influence of the Moon on the Magnetic Declination at Toronto, St. Helena, and Hobarton." Phil. Trans. 1853.

1854. Thomas Graham.

"On Osmotic Force." Phil. Trans. 1854.

1855. John Tyndall.

"On the Nature of the Force by which Bodies are repelled from the Poles of a Magnet; to which is prefixed an account of some experiments on Molecular Influences." Phil. Trans. 1855.

1856. William Thomson.
"On the Electrodynanic Qualities of Metals." Phil. Trans. 1856.
1857. Michael Faraday.
"Experimental Relations of Gold (and other metals) to Light." Phil. Trans. 1857.
1858. John Peter Gassiot.
"On the Stratifications and Dark Band in Electrical Discharges as observed in Torricellian Vacua." Phil. Trans. 1858.
1859. Edward Frankland.
"Researches on Organo-metallic Bodies." Fourth Memoir. Phil. Trans. 1859.
1860. William Fairbairn.
"Experimental Researches to determine the Density of Steam at different Temperatures, and to determine the Law of Superheated Steam." Phil. Trans. 1860.
1861. John Tyndall.
"On the Absorption and Radiation of Heat by Gases and Vapours, and on the Physical Connection of Radiation, Absorption and Conduction." Phil. Trans. 1861.
1862. Warren De La Rue.
"On the Total Solar Eclipse of July 18, 1860, observed at Rivabellosa, near Miranda de Ebro, in Spain." Phil. Trans. 1862.
1863. Henry Clifton Sorby.
"On the Direct Correlation of Mechanical and Chemical Forces." Proceedings, Vol. 12, 1863.
1864. John Tyndall.
"Contributions to Molecular Physics: being the Fifth Memoir of Researches on Radiant Heat." Phil. Trans. 1864.
1865. Henry Enfield Roscoe.
"On a Method of Meteorological Registration of the Chemical Action of Total Daylight." Phil. Trans. 1865.
1866. James Clerk Maxwell.
"On the Viscosity or Internal Friction of Air and other Gases." Phil. Trans. 1866.
1867. Frederick Augustus Abel.
"Researches on Gun-Cotton. (Second Memoir.) On the Stability of Gun-Cotton." Phil. Trans. 1867.

1868. Henry Enfield Roscoe.
 "Researches on Vanadium." Phil. Trans. 1868.
1869. Thomas Andrews.
 "The Continuity of the Gaseous and Liquid States of Matter." Phil. Trans. 1869.
1870. John William Dawson.
 "On the Pre-Carboniferous Flora of North Eastern America, and more especially on that of the Erian (Devonian) Period." Proceedings, Vol. 18.
1871. Charles William Siemens.
 "On the Increase of Electrical Resistance in Conductors with Rise of Temperature, and its Application to the Measure of Ordinary and Furnace Temperatures: also on a simple Method of measuring Electrical Resistances." Proceedings, Vol. 19.
1872. William Kitchen Parker.
 "On the Structure and Development of the Skull of the Salmon (*Salmo salar*, L.)." Proceedings, Vol. 20.
1873. Earl of Rosse.
 "On the Radiation of Heat from the Moon, the Law of its Absorption by our Atmosphere, and its variation in Amount with her Phases." Proceedings, Vol. 21.
1874. J. Norman Lockyer.
 "Researches in Spectrum Analysis in connection with the Spectrum of the Sun." Part III. Phil. Trans. 1874.
1875. William Grylls Adams.
 "On the Forms of Equipotential Curves and Surfaces and on Lines of Flow." Proceedings, Vol. 24.
1876. Thomas Andrews.
 "On the Gaseous State of Matter." Proceedings, Vol. 24.
1877. William Crawford Williamson.
 "On the Organization of the Fossil Plants of the Coal Measures." Part IX. Phil. Trans. 1878.
1878. William Crookes.
 "On Repulsion resulting from Radiation. Part V." Phil. Trans. 1878.
1879. William Crookes.
 "On the Illumination of Lines of Molecular Pressure and the Trajectory of Molecules." Phil. Trans. 1879.

1880. Captain William de W. Abney.
"On the Photographic Method of Mapping the least refrangible
end of the Solar Spectrum." Phil. Trans. 1880.
1881. John Tyndall.
"Action of free Molecules on Radiant Heat, and its conversion
thereby into sound." Phil. Trans. 1882.
1882. Heinrich Debus.
"On the Chemical Theory of Gunpowder." Phil. Trans. 1882.
1883. William Crookes.
"On Radiant Matter Spectroscopy: the Detection and wide
Distribution of Yttrium." Phil. Trans. 1883.
1884. Arthur Schuster.
"Experiments on the Discharge of Electricity through Gases.
Sketch of a Theory." Proceedings, Vol. 37.
1885. William Huggins.
"On the Corona of the Sun." Proceedings, Vol. 39.
1886. Captain William de W. Abney and Major-General Edward
Robert Festing.
"Colour Photometry." Phil. Trans. 1886.
1887. Joseph John Thomson.
"On the Dissociation of some Gases by the Electric Discharge."
Proceedings, Vol. 42 (Abstract).
1888. J. Norman Lockyer.
"Suggestions on the Classification of the various Species of
Heavenly Bodies. A Report to the Solar Physics Com-
mittee." Proceedings, Vol. 44.
1889. Arthur William Rücker and Thomas Edward Thorpe.
"A Magnetic Survey of the British Isles for the Epoch
January 1, 1886." Phil. Trans. A, Vol. 181.
1890. Arthur Schuster.
"The Discharge of Electricity through Gases. Preliminary
Communication." Proceedings, Vol. 47.
1891. George Howard Darwin.
"On Tidal Prediction." Phil. Trans. A, Vol. 182.
1892. James Thomson.
"On the Grand Currents of Atmospheric Circulation." Phil. Trans. A, Vol. 183.
1893. Harold B. Dixon.
"The Rate of Explosion in Gases." Phil. Trans. A, Vol. 184.

1894. Thomas Edward Thorpe and J. W. Rodger.
 "On the Relations between the Viscosity (internal friction) of Liquids and their Chemical Nature."
 Phil. Trans. A, Vol. 185.
1895. A. G. Vernon Harcourt and William Esson.
 "On the Laws of Connexion between the Conditions of a Chemical Change and its Amount. III. Further Researches on the Reaction of Hydrogen Dioxide and Hydrogen Iodide."
 Phil. Trans. A, 1895.
1896. William Chandler Roberts-Austen.
 "On the Diffusion of Metals."
 Phil. Trans. A, 1896.
1897. Osborne Reynolds and W. H. Moorby.
 "On the Mechanical Equivalent of Heat."
 Phil. Trans. A, Vol. 190.
1898. William James Russell.
 "Further Experiments on the Action exerted by certain Metals and other Bodies on a Photographic Plate."
 Proceedings, Vol. 63.
1899. James Alfred Ewing and W. Rosenhain.
 "The Crystalline Structure of Metals."
 Phil. Trans. A, Vol. 193.
1900. William Augustus Tilden.
 "On the Specific Heat of Metals and the Relation of Specific Heat to Atomic Weight."
 Phil. Trans. A, Vol. 194.
1901. James Dewar.
 "The Nadir of Temperature and Allied Problems."
 Proceedings, Vol. 68 (Abstract).
1902. Lord Rayleigh.
 "On the Law of the Pressure of Gases between 75 and 150 Millimetres of Mercury."
 Phil. Trans. A, Vol. 198.
1903. C. T. Heycock and F. H. Neville.
 "On the Constitution of the Copper-tin Series of Alloys."
 Phil. Trans. A, Vol. 202.
1904. Ernest Rutherford.
 "The Succession of Changes in Radio-active Bodies."
 Phil. Trans. A., Vol. 204.
1905. Horace T. Brown.
 "The Reception and Utilisation of Energy by the Green Leaf."
 Proceedings, B, Vol. 76.
1906. John Milne.
 "Recent Advances in Seismology."
 Proceedings, A, Vol. 77.
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MEDAL AWARDS

DURING THE PAST TWENTY YEARS.

Copley Medal.

1886. Franz Ernst Neumann.	1897. Albert von Kölliker.
1887. Sir Joseph Dalton Hooker.	1898. Sir William Huggins.
1888. Thomas Henry Huxley.	1899. Lord Rayleigh.
1889. George Salmon.	1900. Marcellin Berthelot.
1890. Simon Newcomb.	1901. J. Willard Gibbs.
1891. Stanislas Cannizzaro.	1902. Lord Lister.
1892. Rudolf Virchow.	1903. Edward Suess.
1893. Sir George Gabriel Stokes.	1904. Sir William Crookes.
1894. Edward Frankland.	1905. Dmitri Ivanovitch Mendeleeff.
1895. Carl Weierstrass.	1906. Elias Metchnikoff.
1896. Carl Gegenbaur.	

Rumford Medal.

1886. Samuel Pierpont Langley.	1898. Oliver Joseph Lodge.
1888. Pietro Tacchini.	1900. Antoine Henri Becquerel.
1890. Heinrich Hertz.	1902. Charles Algernon Parsons.
1892. Nils C. Dunér.	1904. Ernest Rutherford.
1894. James Dewar.	1906. Hugh Longbourne Callendar.
1896. Philipp Lenard.	
Wilhelm Conrad Röntgen.	

Royal Medals.

1886. Francis Galton.	1896. Charles Vernon Boys.
Peter Guthrie Tait.	Sir Archibald Geikie.
1887. Alexander Ross Clarke.	1897. Andrew Russell Forsyth.
Henry Nottidge Moseley.	Sir Richard Strachey.
1888. Baron Ferdinand von Mueller.	1898. Walter Gardiner.
Osborne Reynolds.	John Kerr.
1889. Walter Holbrook Gaskell.	1899. George Francis Fitzgerald.
Thomas Edward Thorpe.	William Carmichael McIntosh.
1890. David Ferrier.	1900. Percy Alexander MacMahon.
John Hopkinson.	Alfred Newton.
1891. Charles Lapworth.	1901. William Edward Ayrton.
Arthur William Rücker.	William Thomas Blanford.
1892. John Newport Langley.	1902. Horace Lamb.
Charles Pritchard.	Edward Albert Schäfer.
1893. Arthur Schuster.	1903. Sir David Gill.
Harry Marshall Ward.	Horace T. Brown.
1894. Victor Alexander Haden	1904. David Bruce.
Horsley.	William Burnside.
Joseph John Thomson.	1905. John Henry Poynting.
1895. James Alfred Ewing.	Charles Scott Sherrington.
John Murray.	1906. Alfred George Greenhill.
	Dukinfield Henry Scott.

Davy Medal.

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| 1886. Jean Charles Galissard de Marignac. | 1896. Henri Moissan. |
| 1887. John A. R. Newlands. | 1897. John Henry Gladstone. |
| 1888. William Crookes. | 1898. Johannes Wislicenus. |
| 1889. William Henry Perkin. | 1899. Edward Schunck. |
| 1890. Emil Fischer. | 1900. Guglielmo Koerner. |
| 1891. Victor Meyer. | 1901. George Downing Liveing. |
| 1892. Francois Marie Raoult. | 1902. Svante August Arrhenius. |
| 1893. J. H. van't Hoff. | 1903. Pierre Curie and Madame Curie. |
| J. A. Le Bel. | 1904. William Henry Perkin, Jun. |
| 1894. Per Theodor Cleve. | 1905. Albert Ladenburg. |
| 1895. William Ramsay. | 1906. Rudolf Fittig. |

Darwin Medal.

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| 1890. Alfred Russel Wallace. | 1900. Ernst Haeckel. |
| 1892. Sir Joseph Dalton Hooker. | 1902. Francis Galton. |
| 1894. Thomas Henry Huxley. | 1904. William Bateson. |
| 1896. Giovanni Battista Grassi. | 1906. Hugo de Vries. |
| 1898. Karl Pearson. | |

Buchanan Medal.

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| 1897. Sir John Simon. | 1902. Sydney A. Monckton Copeman. |
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Sylvester Medal.

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| 1901. Henri Poincaré. | 1904. Georg Cantor. |
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Hughes Medal.

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| 1902. Joseph John Thomson. | 1905. Augusto Righi. |
| 1903. Wilhelm Hittorf. | 1906. Mrs. Ayrton. |
| 1904. Sir Joseph Wilson Swan. | |
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AWARD OF MEDALS, 1906.

The Copley Medal to Prof. Elias Metchnikoff, on the ground of the importance of his work in Zoology and in Pathology.

The Rumford Medal to Prof. Hugh Longbourne Callendar, for his experimental work on heat.

A Royal Medal to Prof. Alfred George Greenhill, for his contributions to mathematics, especially the elliptic functions and their applications.

A Royal Medal to Dr. Dukinfield Henry Scott, for his investigations and discoveries in connection with the structure and relationships of fossil plants.

The Davy Medal to Prof. Rudolf Fittig, for his investigations in chemistry, especially his work on lactones and acids.

The Darwin Medal to Prof. Hugo de Vries, on the ground of the significance and extent of his experimental investigations in heredity and variation.

The Hughes Medal to Mrs. Ayrton, on the ground of her experimental investigations on the electric arc and also on sand ripples.

STUDENTSHIPS.

The Joule Studentship is held by M. Debierne, on the nomination of the Académie des Sciences (1905), for research on radio-active bodies.

The Mackinnon Studentships are held by—

Mr. W. G. Duffield, for the study of the arc spectra of metals under high pressures.

Dr. F. H. Scott, for the continuation of studies on the nature of the process of excitation of nerve cells.

ANNIVERSARY MEETING.

1906.

On Friday, November 30, the Anniversary Meeting of the Society was held in the apartments in Burlington House.

MR. A. B. KEMPE, Treasurer and Vice-President, in the Chair.

The Report of the Auditors was presented as follows:—

During the past year the total ordinary income on General Purposes Account, including the Treasury Grant of £1,000 for publications, amounts to £7,500 5s. 4d.

The Total Ordinary Expenditure for the same period on general purposes, including grants for Publications to extraneous bodies, amounts to £7,784 19s. 9d., showing an excess of Expenditure over Income of £284 14s. 5d.

The Trust Fund Accounts show balances in hand amounting to £8,144 6s. 7d., of which £2,236 16s. 6d. appears on the General Trust Funds Accounts, and £5,887 10s. 1d. on the accounts of the National Physical Laboratory, which are separately audited by a professional accountant.

The thanks of the Society were voted to the Treasurer and Auditors.

The Secretary read the lists of Fellows elected and deceased since last Anniversary. (*See pp. 42, 210.*)

The following Report of the Council, which had been previously distributed to the Fellows, having been taken as read, was, on the motion of the President, received:—

REPORT OF THE COUNCIL.

PRESENTED TO THE ROYAL SOCIETY, NOVEMBER 30, 1906.

The main features of the activity of the Royal Society during the Session 1905-6 may be classified under the following heads:—

ANTARCTIC EXPEDITION.

During the past year the preparation of the reports on the scientific results obtained by the late National Antarctic Expedition has been in continuous progress. The Council has decided that these reports shall be published in quarto form, uniform with the "Philosophical Transactions" and the "Challenger" publications.

A considerable part of the Meteorological results has now been sent to the printers. The Magnetic observations having proved to be more extensive than could be undertaken by the Admiralty, the work was divided. The reduction of the slow-run magnetograms, about 600 in all, amounting to about two-thirds of the whole magnetic work, has been undertaken by the National Physical Laboratory, under the direction of a Committee, with Dr. Chree as secretary, and is now far advanced. The remaining portion of the magnetic work has been completed at the Admiralty, and is ready for publication. The Seismological observations were placed in the hands of Dr. John Milne, who has returned his material ready for press. The observations on atmospheric electricity and the Aurora Polaris have been undertaken at the Meteorological Office under the superintendence of Mr. C. T. R. Wilson. The Gravity observations have been entrusted to the National Physical Laboratory. The material available has received a valuable addition in the records of the Scottish Antarctic Expedition, which have been placed with the Committee for reduction. The Natural History portion of the work of the Expedition has been generously undertaken, at their own expense, by the Trustees of the British Museum, on condition that the specimens should be added to their collections; and this work is now far advanced towards publication. It has been arranged that the results of the various sections shall be published in a uniform series of volumes.

Besides the more strictly scientific results brought back from the Antarctic regions, the Expedition obtained some hundreds of photographs, and Dr. Edward A. Wilson took many excellent sketches of the coasts and other features. As these various representations of Antarctic scenery and physical conditions contain a most valuable record for comparison with future observations, arrangements have been made for the publication of a selection of the most important and interesting of these illustrations.

CATALOGUES.

*International
Catalogue of
Scientific
Literature.*

The British representatives on the Executive Committee of the International Council of the Catalogue have, during the year, been Prof. Armstrong, Dr. Thorpe, Prof. McLeod and Dr. Chalmers Mitchell. The Treasurer of the Royal Society has again, by request, attended the meetings.

The third annual issue of the Catalogue has now been completed. The whole of the fourth issue has also been published with the exception of Volumes D (Chemistry) and N (Zoology). These two volumes are in the press.

The total number of index slips received at the Central Bureau since the beginning of the undertaking is 807,876.

If extra slips prepared at the Central Bureau be added, it will be found that the total number of slips dealt with is over one million.

A balance-sheet, prepared by a chartered accountant, shows that on the first three annual issues there was an excess of income over expenditure of £365.

The number of scientific papers published annually is increasing year by year, and if they are to be properly indexed it would seem that the Catalogue must increase in bulk. Thus the production of each annual issue will probably become more costly. It is, therefore, very desirable that new subscribers to the Catalogue should be found.

The most important addition to the subscription list during the past year is Belgium, which now takes seven complete sets of the Catalogue. Information has also been received to the effect that the Transvaal University will subscribe for one set.

Arrangements have been made for an amalgamation of Volume N of the International Catalogue with the Zoological Record, published by the Zoological Society. The first joint volume will be that indexing the literature of 1906. Work upon this volume is already in progress.

In their last Report the Council stated that they had decided to make a further advance on loan up to £2,000 if required. Of this sum £1,500 was advanced during the year. The balance, £300, of a preliminary loan of £500, made without interest, has been paid back to the Society, so that the total indebtedness of the Catalogue to the Royal Society is now £5,500, upon which interest at 4 per cent. is being paid.

*Royal Society
Catalogue of
Scientific
Papers.*

The preparation of the remaining part, 1883-1900, of the Royal Society Catalogue of Scientific Papers has made steady progress during the year. During the last twelve months 84,000 additional abbreviated titles for the Subject Index have been prepared by the Referees, making a total of 350,000.

Full titles, amounting to 59,000, have been copied from 134 serials and sorted, making a total of 254 serials now completed for the Catalogue of Authors and Subject Index for the period 1884-1900, and yielding about 190,000 titles. Four typewriters are employed on this work and are preparing, on the average, 3,300 slips per week for the Authors' Catalogue and the Subject Index.

The indexing and numbering, by the referees, of the slips for the Subject Index taken from the twelve volumes of the Catalogue already published has been continued; 24,000 have been prepared during the year, the total now amounting to about 243,000, not including about 70,000 done in the office. The slips dealing with Mathematics, Mechanics, Physics, Chemistry, Astronomy, Meteorology, Geography, Botany, and Anthropology are now completed, those unfinished being Mineralogy, Geology, Palæontology, Biology, Zoology, Anatomy, Physiology, and Bacteriology, but many of these are far advanced.

The Committee have made strenuous efforts to send the Index Volume for Mathematics to press during the present summer, but owing to difficulties in the collecting of titles of Mathematical Papers scattered through serials of a miscellaneous character, this has not yet been possible. It is, however, anticipated that the volume will go to press at once, any omissions subsequently found being collected in an Appendix at the end. The slips for it are completed, with the exception of a few from Russian, Polish, Bohemian, and Hungarian serials, which are in hand. The final sorting of these slips for the Press has been found to entail the alteration of some of the titles which have been made by different Referees so as to bring similar papers together in alphabetical and chronological order; this process has required a much greater expenditure of time than was anticipated. The number of the titles in the Mathematical Index for the century will probably exceed 50,000, which have been obtained from more than 630 serials. A list is being prepared giving the names of these serials, the abbreviations used in the Index, and the more important libraries in which the serials may be found, which will increase the utility of the volume.

Early in the year the Catalogue Committee reported, as the result of negotiation, that the Cambridge University Press had made a proposal to undertake, at their own risk, the publication of the remaining volumes of the Catalogue and the whole of the Subject Index for the nineteenth century, on the understanding that the former would amount to about ten or twelve volumes quarto, of about 800 pp. each, in small type, while the latter might extend to thirty or forty volumes royal octavo, about 600 pp. each, it being understood that, in order to diminish their risk, they would have the co-operation of the Royal Society in promoting the sale of the work at home and abroad. The Council have conveyed to the Cambridge University Press their cordial acceptance of the terms of this proposal.

On difficult questions which arose in connection with the Subject Index in Biology the following agreement has been reached by an advisory sub-committee of biologists:—That it is undesirable to swell the Subject Index by the insertion of lists of names of new genera or species, whether in Zoology, Botany, or any other branch of Natural History. And steps are being taken with the co-operation of this sub-committee to reduce the list of periodicals indexed in these sciences as far as is consistent with the efficiency of the Index.

Since the concluding volumes of the Catalogue were taken in hand, with a view to early completion, the expenditure has largely grown and has been at the rate of about £2,000 a year for the last three years. The result is that there now remain, out of the generous grant of £6,000 by Dr. Mond, and about £4,000 from other sources, funds sufficient only for half a year's work; and the financial question thus again becomes acute. It will be remembered that from the beginning of the present century this work of cataloguing has been provided for by international agreement; and it is, therefore, on all grounds incumbent on the Royal Society to complete, as soon as possible, the unfinished years of the preceding century. This work could not have proceeded without frequent demands on the advice and co-operation of Fellows, and other experts in the various sciences that are being dealt with; and the Council desire, on behalf of the Catalogue Committee and themselves, to record their thanks for the great amount of trouble that has been taken to assist the Committee and Professor McLeod, the Director of the Catalogue, in all departments of their task.

GEODESY.

International Geodetic Association.

In accordance with the advice of the Royal Society, the British Government has renewed its adhesion and subscription to the International Geodetic Association for a further period of three years, and Sir George Darwin has recently attended the Congress at Buda-Pesth as British delegate.

South African Arc.

In May last the attention of the Council was drawn to the following facts:—

The funds (£36,000) provided by the British South Africa Company for the South African Meridian Arc were reported to be exhausted. The arc had been extended beyond the Zambesi towards Lake Tanganyika, but a gap of 120 miles existed in the middle of it. It was estimated that £1,600 was required to fill this gap, and the matter was most urgent in view of the pending disbandment of the surveying parties. The Officers had intimated by authority from the President that the Royal Society would probably be able to subscribe £300 from its private funds on condition that the remainder of the money required were provided; and, on the strength of this information, Sir G. Darwin obtained a promise of £800 from the British South Africa Company, £100 from the Royal Geographical Society, £100 from Wernher, Beit & Co., and cabled to Sir D. Gill that the surveying party was to proceed, thus assuming responsibility for the remaining £300. This £300 has since been subscribed by the British Association from its special South African Fund.

After discussion as to whether it is equitable that the Society should be called on to bear public expenditure of this kind, and on the understanding that the matter would be brought directly to the notice of the Government, it was resolved that the Society subscribe £300 from its Donation Fund on the condition that the gap in the arc be filled up.

In June the Treasurer was authorized to pay the promised donation at once into the hands of the British South Africa Company, the total amount required having been subscribed by that Company and other sources.

The Council understand that the problem of the northern portion of the arc is being already kept in view by the Egyptian authorities.

The question of the revision of the main Triangulation of the British Ordnance Survey, now fifty years old, with a view to making it comparable in accuracy with the more recent surveys of other European countries, has been under consideration during the year. On the initiative of H.M. Treasury, who asked for the advice of the Royal Society on the subject, a detailed statement was drawn up, after careful consideration and consultation of authorities, pointing out the high scientific and international importance of this proposal, and at the same time the opinion was expressed that its expense under modern conditions of work need not come up to the estimate mentioned by the Treasury. The Council regret to learn that, notwithstanding, the Treasury have not felt themselves able to entertain any proposal to supply funds for this purpose.

*Ordnance
Survey
Triangu-
lation.*

The Council were glad to report last year that their communications regarding the high scientific value of the General Indian Trigonometrical Survey, and the undesirability of reducing the staff while large regions remained to be surveyed, had met with the ready sympathy of the Government of India. They understand that this important British contribution to International Geodesy is actively proceeding.

*Indian
Trigonomet-
rical Survey.*

GOVERNMENT GRANTS.

Pursuant upon the recommendations of the Government Grant Committee, the President and Council have this year made grants amounting to £4,670. This sum includes £1,050, an amount required to cover the payment of two "Extended" grants, one of £200 a year for three years and one of £150 a year for a like period.

*Grant for
Scientific
Investiga-
tions.*

The sum of £500 was reserved as usual for administration by the Council to meet pressing demands upon the Fund which may arise before the next meeting of the Government Grant Committee.

The total amount allotted this year exceeded the amount of the Annual Grant by £1,370, this deficit being met by a transfer from the Reserve Fund.

The unexpended sums reclaimed from grantees, under regulation 27, during the year, and carried to the Reserve Fund Account, amounted to £405 Os. 9d.

Under the recent regulation providing that certain sums may be set aside out of the Reserve Fund to provide for expenditure incurred by the President and Council in undertaking or advising upon matters referred to them by the Government, the sum of £125 has this year been set aside on this account.

Owing to the largely increased expenditure of the Society in publishing communications made to its own "Proceedings," it has been necessary to limit the grants in aid of publications by other agencies.

*Publication
Grants.*

Out of the Government Grant of £1,000, which is made to the Society "to assist not merely their own publications, but also the adequate publication of scientific matter through other channels and in other ways," the Council have this year made grants amounting to £192.

INDIAN INSTITUTE OF SCIENCE.

Early in the year the Secretary of State for India requested the assistance of the Royal Society in nominating a Director for the Institute of Science, which is to be founded at Bangalore in accordance with the proposals of the late Mr. J. N. Tata, of Bombay, and his family. The subject was referred to a Committee, which, after further correspondence with the Government, reported to the Council; whereupon two names were transmitted by the Council to the Government as those of suitable persons, competent to discharge the duties of such an office.

The Council has recently been informed by the Secretary of State for India that arrangements have been made for the appointment of Dr. Morris W. Travers, F.R.S., to the office of Director.

INTERNATIONAL ASSOCIATION OF ACADEMIES.

The Council of the International Association of Academies met in Vienna at the end of May last, Prof. Schuster attending as representative of the Royal Society. The principal business brought before it was the preliminary discussion of the proposals to be submitted to the Association when it meets next year. It was resolved to recommend the inclusion of the Imperial Academy of Sciences of Tokio as a member of the International Association of Academies. Two proposals submitted by the Royal Society received considerable support. Regarding one of these, which aimed at the establishment of a uniform lunar nomenclature, the Council resolved to recommend to the General Assembly of the Association the appointment of a Committee to consider the subject. The proposal that the Association should allow itself to be placed at the head of the bodies constituting the International Union for Solar Research was considered, and, while sympathy was expressed with the wishes of the Solar Union, the Council felt a difficulty in recommending a scheme that might involve the Association in responsibilities which it had no legal power to incur. Prof. Schuster undertook to bring the matter forward again next year in a modified form.

On the suggestion of the Academy of Sciences of Paris, the Council agreed to recommend a scheme for the organization of meteorological stations at different points of the earth's surface.

INTERNATIONAL SEISMOLOGY.

The subject of international co-operation in the reduction and standardization of seismological observations has engaged the attention of the Council. In accordance with the decision of the

International Association of Academies, the proposition made by the German Government and referred to in the last Report of the Council, has, during the present year, been carried into effect. The conditions suggested to the Treasury by the Royal Society, on which the concurrence of this country should be given, have been fulfilled. Both the Governments of France and the United States agreed to send representatives to the first meeting of the permanent Commission of the International Seismic Association, and on the recommendation of the Council, Prof. Schuster was deputed by the Treasury to attend that meeting as delegate from this country. The various representatives of the different countries which agreed to take part in the operations and deliberations of the Commission met in Rome on October 16 last. The chief business of this meeting was the organization of the work of the Association. One of the principal results of the discussion was a resolution to use a portion of the funds at the disposal of the Association for the establishment of a Seismological station in the Arctic regions. The permanent Commission is to meet every two years, and the first general meeting of the Association has been arranged to be held next year.

LIBRARY.

For many years the rapidly increasing congestion in the Library has claimed the anxious attention of the Council and Officers, and must have caused much inconvenience to the Fellows of the Society. Various schemes have been proposed for relieving this congestion by providing additional shelving accommodation, but no sufficient wall space could be found to afford a practically useful measure of relief. Among other proposals was one for removing heavy official serial publications which are available for consultation in the libraries of special societies at Burlington House, into the basement, thus releasing shelves for serials in more regular use; but the basement rooms were already overcrowded with the accumulations of stock of the Society's publications. It was hoped that the free distribution of "Proceedings" to public libraries, referred to on p. 177, and the reduction of the remaining stock of "Proceedings" to what will amply satisfy all likely requirements in the future, would set free space, which could be utilized for relief of the Library. But now that the distribution has taken place, the gain of shelving space in the store-room is, owing to new accumulation of stock of various kinds, almost inappreciable. By the provision of shelving along the passages in the basement, accommodation has been found for a considerable proportion of the bulky series of Reports of Astronomical Observations and similar publications, which must be preserved but are not often consulted. By this means, some immediate provision will, it is hoped, be made for the pressing needs of the constantly expanding sets of serial publications; but the additional space thus gained will very soon be filled, and the Council will again have to face a situation similar to the present. Until an adequate solution of this difficulty is found, and a systematic

arrangement of the books thus rendered possible, it is impracticable to take in hand the very necessary task of preparing a new edition of the Library Catalogue.

During the past year three new serial publications (*Annuario del Museo Zoologico*, Naples; *Archives de l'Institut Royal de Bactériologie*, Lisbon; *Annaes Acad. Polytechnica* of Oporto) have been added to the 503 which the Society already received regularly. Besides these, 55 books have been added to the Library by presentation or purchase. Among the presents are :—

- F. McClean. Photographs of the Spectrum of Nova Persei.
- C. Hermite. Œuvres. Tome 1.
- H. Moissan. *Traité de Chimie Minérale*.
- Expédition Antarctique Belge. *Résultats du Voyage du Belgica en 1897-99*, 20 parts.
- G. W. Hill. *Collected Mathematical Works*, vols. 2 and 3.
- Mission Suédoise pour la Mesure d'un Arc de Méridien à Spitzberg, vols. 1 and 2.
- Deutsche Südpolar Expedition. *Zoologie, Geologie, Erdmagnetismus* etc., 4 parts.
- Sir W. Huggins. *The Royal Society, or Science in the State and in the Schools*.

MAGNETIC SURVEYS.

India.

The progress of the Indian Magnetic Survey, under the direction of Major H.A.D. Fraser, R.E., is reported from time to time to the Observatories' Committee of the Society, who are actively interested in the work. Preparations are also in progress for the reduction and publication of the very long series of magnetic records accumulated at Bombay, under the superintendence of Mr. Moos, the Director of the Observatory.

South Africa.

A magnetic survey of South Africa has been in progress for some years, under the direction of Prof. Beattie, of Capetown, and the field work is now practically completed. In reply to a request that the results might be published under the auspices of the Royal Society, the Council willingly expressed its assent, as uniformity would thereby be secured with the British Survey executed by Rücker and Thorpe, and with the magnetic surveys, in which the Royal Society is concerned, proceeding in other parts of the Empire. The Council agreed to undertake the publication of a separate volume, uniform with the "*Phil. Trans.*," on condition that the expenses were repaid by the Colonial Government concerned. The Society has since been officially informed that the sum of £600 is held by the Public Works Department at Capetown to meet the expenses of publication of the magnetic survey of South Africa.

New Zealand.

The Council has also taken steps to secure that the magnetic survey of New Zealand, now nearly completed, under the direction of Dr. Coleridge Farr, and to be published by the Government of New Zealand, shall appear in a form uniform as far as possible with the above.

PUBLICATIONS.

In continuation of the policy of promoting by every means possible a wide circulation for the publications of the Society, the Council has fixed a subscription price to the public for the "Proceedings" of the Royal Society at a reduction from the aggregate price of publication of the separate parts, viz., at 15s. per volume of about 600 pp. for the Series A, Mathematical and Physical Sciences, and 20s. per volume for Series B, Biological Sciences.

As the memoirs in the "Transactions" are published separately at stated prices, with the greatest expedition that is possible, it is not necessary to arrange terms of subscription for the series as a whole. But steps have been taken by notices printed on the covers of the "Proceedings," and in other ways, to ensure that these memoirs, as they appear, shall be promptly brought to the notice of scientific men likely to be interested.

The scale of prices of publication of the separate parts of the "Proceedings" and the separate memoirs of the "Transactions" has also been revised, with a view to reducing the prices as much as the financial position of the Society will permit. Under this new scale a very considerable increase of circulation will, in fact, be required, in order to maintain the Society's present position.

The Council are indebted to various scientific publishing agencies, which need not be here specified, for assistance in drawing public attention to its efforts to extend the circulation of the publications of the Society.

Consequent on the new arrangements relating to publications, and also arising out of applications from some learned Societies for the privilege of simultaneous publication by them of Papers read before the Royal Society in which they are interested, the Council have taken this whole subject into consideration and resolved as follows:—

- (1) That existing arrangements be cancelled.
- (2) That the Council are willing, on application made, to consider the question of supplying either the Physical or the Biological Series of "Proceedings" or "Transactions" direct to the members of recognized learned Societies at a rate of subscription further reduced, provided such Society were willing to subscribe on behalf of an adequate proportion of its members.

The favour with which the new form of "Proceedings" is viewed has raised the question of its relation to the "Transactions." This relation, in the opinion of the Council, is expressed in the following decision:—

That while there will be in future no definite limitation to the length of Papers accepted for the "Proceedings," the natural place for Monographs, and for Papers with numerous and elaborate illustrations, will be the "Transactions"; the decisions as to such allocation resting ultimately with the Council sitting as Committee of Papers.

The alterations which have been made in the form of the "Proceedings" have, necessarily involved an addition to their cost. They have also been accompanied during the past year by a large increase in the amount of matter published in the "Proceedings," an increase which has more than doubled their usual contents. This increase has not been accompanied by any diminution in the cost of the "Philosophical Transactions," nor has there as yet been any marked increase in the sale of the "Proceedings." The result is that there has been a grave addition to the net expenditure of the Society on its publications, an addition so large that its annual continuance without a very substantial addition to the present income of the Society is out of the question.

*Authors'
Separate
Copies.*

The steady growth in the bulk of the "Proceedings" has been due largely to the increasing amount of work done under the auspices of various scientific organizations which is sent for publication by the Royal Society. While the Society will always willingly give its aid to the effective publication of scientific work, the increased financial obligations above mentioned have rendered it necessary to revise the regulations under which authors might apply for unlimited free copies at nominal cost. The new regulation, which has been generally accepted as fair by the parties concerned, is that an author is to be entitled to 100 copies of his paper free, and to such further copies as he may require at the rate for each 100 copies of one-eighth of the aggregate expense of production of the paper, in addition to the expense of producing these extra copies.

*Issue of
Publications.*

During the past year 15 papers have been published in the Mathematical and Physical section, and 7 in the Biological section of the "Philosophical Transactions." The two sections together contain in all 1,069 pages of letterpress and 45 plates.

Of the two series of the enlarged "Proceedings," 11 more numbers have been issued in series A, and 14 in series B. These contain in series A (Mathematical and Physical), 896 pages and 12 plates, and in series B (Biological), 1,020 pages and 49 plates.

The Society has also carried through the press and published the following volumes extraneous to its regular serial publications:—

"Reports to the Evolution Committee." No. III.

Vol. IV of the "Reports on the Pearl Oyster Fisheries of the Gulf of Manaar, and on the Biology of Ceylon," edited by Prof. Herdman, F.R.S.

Part IV of "Reports of the Commission on Mediterranean Fever."

The cost of these publications has in some cases been partly met by special contributions from the Departments of Government concerned in the investigations described.

*Surplus
Stock of
Publications.*

Steps were taken during the year to reduce the accumulations of stock of the Society's Publications, which were, in many cases, much in excess of any probable future requirements. In reply to an invitation widely published by the Society numerous applications

from public institutions and libraries, at home and abroad, for sets of "Proceedings" of greater or less length have been received and in the main acceded to; while not less than 100 sets, whenever so many were available, have been retained in order to meet future demands.

The attention of the Council has also been directed to the stock of "Transactions," mostly in volumes, and consisting in part of volumes unclaimed in past years by Fellows. They have decided, with a view to rendering the "Transactions" more available for use—

- (i) To advertise surplus sets, 1829–1900, or any shorter interval of not less than ten years, at one-third of published price; to be had usually in paper covers, but from 1875 onwards in cloth.
- (ii) To advertise shorter sets or separate volumes or parts, 1801–1828, at one-half the published price, when the stock admits of it (*i.e.*, only when there are thirty copies or more).
- (iii) Separate papers from the "Philosophical Transactions" for the whole period, 1830–1900, and in part, so far as available, for the preceding period, 1801–1829, to be offered for sale in sheets, at prices based on the scale of fourpence per sheet of eight pages, together with threepence for each plate.

TROPICAL DISEASES.

Since the preparation of the Council's last Report, the work of the Tropical Diseases Committee has been in active progress. The Committee having strongly urged the desirability of organizing a more systematic investigation of the local conditions under which Sleeping Sickness prevails, and having recommended the appointment of six additional medical officers to be sent out to Uganda for the purpose of this investigation, the Colonial Office adopted these recommendations, and steps were at once taken to carry them out. Meanwhile the researches of the Committee's observers at Entebbe were prosecuted with zeal. Prof. Minchin remained at his post until the end of last year, and obtained a large amount of additional material for the study of the anatomy of the tsetse-flies, and the history of the protozoa to which the disease is owing. His results have been embodied in a preliminary paper which has been published in the "Proceedings of the Royal Society," and in a further report (No. VIII) now in course of publication by the Colonial Office. This will be preceded by a report (No. VII) by Dr. Mott on "Histological Observations on Sleeping Sickness and other Trypanosome Infections," to which aspect of the question he has for long devoted much time and labour. Lieutenant Gray and Lieutenant Tulloch continued the investigations suggested to them by the Committee, and prepared a valuable report which is

*Sleeping
Sickness.*

now in the hands of the printers. The Council deeply deplores that in the prosecution of his labours Lieutenant Tulloch contracted the disease himself, and after having been invalidated home lingered in hospital in London until June 20 last when he died. Lieutenant Gray had accompanied him back to England, thus leaving the Laboratory at Entebbe for the present unoccupied. The Committee had then anxiously to consider what had best be done in these altered circumstances. One important part of the work which they had undertaken, viz.: to discover the cause and mode of spread of sleeping sickness, had been accomplished. They finally determined not to recommend that any observers should for the present be sent out to Uganda, but that while the increased medical staff in the Protectorate were engaged in the investigations suggested for their adoption, the funds placed at the disposal of the Committee by the Colonial Office should be applied to the search for some therapeutic remedy by which Sleeping Sickness might be combated. This investigation will necessarily be lengthy and tedious, and must be conducted on a large scale, and properly organized under the immediate supervision of an experienced pharmacologist. The Committee accordingly selected Prof. Cushny, of University College, to undertake this investigation, which will be conducted at the Lister Institute, the Governing Body of which have been so good as to place the resources of their laboratories at the service of the Committee for the purpose. By co-operating with the Principal Medical Officer in Uganda, it is believed that every opportunity will be obtained of testing the efficacy of the specifics which may be devised for ameliorating or extirpating the deadly disease.

Malta Fever.

The Council is happy to be able to report the near approach to completion of the task of investigating Mediterranean Fever, entrusted to the Royal Society two years and a-half ago by the Colonial Office, with the active concurrence of the Admiralty and War Office. The cause of the disease having been discovered by Col. Bruce some time ago to be a microbe (*Micrococcus melitensis*), the Royal Society Commission at Malta, after an exhaustive series of enquiries, has now ascertained that the main source of propagation of the disease appears to be the milk of infected goats. It is possible that there may be other contributory causes, such as mosquitoes and house-flies, but since the Commission in Malta discovered the presence of the microbe in the blood and milk of a large proportion of the goats in Malta, and warned the authorities to take the necessary precautions in the use of goats' milk, the number of cases of fever has rapidly diminished. Thus, while during the months of July, August and September of last year, 258 soldiers suffering from the fever were admitted to hospital; during the same period this year the number sank to twenty-six. There seems to be little doubt that if the whole of the infected goats could be removed from the island, Mediterranean Fever in Malta would be reduced to insignificant proportions, if it would not entirely disappear. The reports of the observers for the present year are expected to be received within the next few weeks, and will at once be published.

MISCELLANEOUS.

The Council have to report with regret the death of Mr. Herbert Rix, Assistant Secretary of the Society from 1885 to 1896. During his period of office Mr. Rix gained the permanent respect and esteem of the Fellows by the valuable service he rendered to the Society.

In connection with the celebration of the Jubilee of the Coal Tar industry, a congratulatory letter was signed by the President and presented to Sir William Perkin at the ceremony held at the Royal Institution in July last.

On the invitation of the American Philosophical Society, the Royal Society was represented at the celebrations in Philadelphia of the 200th Anniversary of the birth of Benjamin Franklin. A congratulatory address was drawn up by the Council and presented, on behalf of the Society, by Prof. Ernest Brown, Prof. Mallet, and Prof. Rutherford.

On the occasion of the celebrations in September last, in connection with the Quatercentenary of Aberdeen University, the Society was represented by Sir Archibald Geikie, who presented an Address from the President and Council.

Other subjects which have occupied the attention of the President and Council will be treated of by the President in his Anniversary Address.

PRESENTS RECEIVED BY THE SOCIETY, 1906.

A Donation of £100 for scientific research, with a preference for such investigations as have for their object the combating of disease.

Miss Wolfe.

Bronze Medal to commemorate the Two-hundredth Anniversary of the birth of Benjamin Franklin, struck by the authority of the Congress of the United States.

The American Philosophical Society.

Photographic reproduction of a portrait of David Rittenhouse, For. Mem. R.S. (1795), sometime Professor of Astronomy in the University of Pennsylvania.

The Rittenhouse Trust Company.

Six Albums containing photographs taken by the National Antarctic Expedition.

The Expedition.

INCOME AND EXPENDITURE ACCOUNT—continued.

GENERAL PURPOSES—continued.

	£	s.	d.		£	s.	d.
To Special—				Brought forward	...	...	3,772 1 11
Government Enquiry Expenses, Refund from	...	...	...	"Proceedings"—	£	s.	d.
Government Grant Reserve Fund	...	...	...	Printing	...	1,714 18 10	
	125	0	0	Paper	...	323 10 9	
				Engraving	...	...
" Balance being excess of Expenditure over				Lithography	...	361 2 0	
Income	...	...	...	Binding	...	8 8 0	
	284	14	5		2,407	19	7
				"Special Publications" Subven-			
				tions	...	23 19 10	
				Year Book and Obituary Notices	...	86 4 5	
					3,820	17	10
				Grants for Extraneous	£	s.	d.
				Publications, paid	137	0	0
				Do not yet claimed	55	0	0
					192	0	0
					4,012	17	10
					£7,784	19	9

CATALOGUE OF SCIENTIFIC PAPERS, 1884-1900, AND SUBJECT INDEX, 1801-1900.

RECEIPTS.

	£	s.	d.
To Balance, as per last Account...	...	...	2,734 10 1
" Donation	...	...	5 0 0
" Transfer from Handley Fund	...	...	191 8 9
	£2,830	18	10

PAYMENTS.

	£	s.	d.
By Salaries, Wages, and Office Expenses	...	...	1,730 6 6
" Balance unexpended, as per Balance Sheet	...	...	1,200 12 4
	£2,930	18	10

ESTATES AND PROPERTY OF THE ROYAL SOCIETY.

GENERAL PURPOSES.

Estate at Mablethorpe, Lincolnshire, rent £75 per annum.	...
Ground Rent of House, No. 57, Basinghall Street, rent £380 per annum.	...
" " of 23 houses in Wharton Road, West Kensington, rents £253 per annum.	...
Fee Farm Rent, near Lewes, Sussex, £19 4s. per annum.	...
Chancery Dividend. One-fourth annual interest on Balance of Bequest still in Court, amounting this year to £90 3s. 6d. (Stevenson Bequest).	...
£12,000 Mortgage Loan, 3½ per Cent., to the Duke of Norfolk.	...
£3,518 Os. 3d., 2½ per Cent. Consolidated Stock in Chancery, arising from sale of the Coleman Street Estate.	...
£220 7s. 6d. India 3½ per Cent. Stock.	...
£1,300 India 3 per Cent. Stock.—(Earl of Derby's Bequest.)	...
£592 5s. 9d. Midland Railway Consolidated 2½ per Cent. Perpetual Guaranteed Preferential Stock.—(Stevenson Bequest.)	...
£5,000 Madras Railway 5 per Cent. Guaranteed Stock.	...
£2,725 Great Northern Railway Consolidated 4 per Cent. Perpetual Preference Stock.—(Stevenson Bequest.)	...
£14,908 London and North Western Railway 4 per Cent. Consolidated Guaranteed Stock.—{ £12,150 General Purposes. £2,758 Stevenson Bequest.	...
£5,000 " " Consolidated 4 per Cent. Preference Stock.	...
£5,818 North Eastern Railway 4 per Cent. Preference Stock.	...
£2,760 " " Consolidated 4 per Cent. Guaranteed Stock.—(Stevenson Bequest.)	...
£3,333 London and South Western Railway 4 per Cent. Consolidated Preferential Stock, 1881.	...
£4,000 Southern Mahratta Railway 4 per Cent. Debenture Stock.	...
£3,286 4s. 3d. National War Loan 2½ per Cent. Stock.	...

Mem.—The advance of £5,500 made to the International Catalogue Loan Account has been made out of £1,000 donation from Mrs. Tyndall, £1,000 part Legacy from Mr. F. McClean, £500 part balance in hand on Catalogue of Scientific Papers Fund, and £3,000 realized by sale of India Stock.

TRUST FUNDS. CASH ACCOUNTS, 1906.

(The numbers at the head of each account refer to the corresponding entries in the Trust Funds Balance Sheet.)

(1.)

SCIENTIFIC RELIEF FUND.

£8,000 L. & N.W. Railway 4 per Cent. Consolidated Guaranteed Stock.
 £7,200 Great Northern Railway 3 per Cent. Debenture Stock.
 £4,340 South Eastern Railway 5 per Cent. Perpetual Debenture Stock.
 £737 10s. 0d. 2½ per Cent. Annuities.

Dr.	£	s.	d.	£	s.	d.	Cr.
To Balance, Income	1,796	17	3	£ s. d.
Less Temporarily Invested	1,323	8	10	1,103 11 6
Dividends...	0 14 0
" Sale of £562 10s. 2½ per Cent. Annuities	663	11	0	...
" Income Tax recovered	500	11	6	...
	30	17	8	564 3 1
				£1,668	8	7	564 3 1
							£1,668 8 7
By Grants	£ s. d.
" Printing	1,103 11 6
" Balance, Income	0 14 0
Less Temporarily Invested
				564 3 1
				£1,668	8	7	£1,668 8 7

(2.)

DONATION FUND.

£5,030 Great Northern Railway Consolidated 4 per Cent. Perpetual Guaranteed Stock.
 £1,861 6s. 8d. Great Northern Railway 3 per Cent. Debenture Stock. (Trevelyan Bequest.)

	£	s.	d.	£	s.	d.
To Balance	1,120	0	3
Dividends	244	3	10
Transfer from Jodrell Fund	128	19	9
Income Tax recovered	10	16	2
				£1,504	0	0
By Grants
" Balance
			
				£1,504	0	0

(9.)

THE GASSIOT TRUST,

£9,980 Italian Irrigation Bonds, Cavour Canal.

£725 2½ per Cent. Consolidated Stock.

[illegible]

(10.)

HANDLEY FUND.

£4,798 Lancashire and Yorkshire Railway 4 per Cent. Consolidated Guaranteed Stock.

To Dividends ...	£	s.	d.	By Transfer to Catalogue Account	£	s.	d.
" Income Tax recovered
		191	8	9

		191	8	9

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(II.)

THE JODRELL FUND.

£5,182 14s. 10d. 2½ per Cent. Consolidated Stock.

To Dividends ...	£	s.	d.	
Income Tax recovered ...	...	...	...	...
	123	2	0	
	5	17	9	

	£128	19	9	

By Transfer to Donation Fund ...	£	s.	d.	
	128	19	9	

	£128	19	9	

BRADY LIBRARY FUND.

£330 2½ per Cent. Consolidated Stock.

To Balance ...	£	s.	d.	By Balance ...	£	s.	d.
" Dividends ..	54	5	8	"	2	9	11
" Income Tax recovered	7	16	8	"	...	...	...
	0	7	7		...	...	...
	£62	9	11		£62	9	11

GUNNING FUND.

£1,015 3s. 6d. Nottingham Corporation 3 per Cent. Redeemable Stock.

To Balance	...	...	...	...	...	...	£ 88 18 6
" Dividends	...	...	...	...	...	...	£ 28 18 8
" Income Tax recovered	...	...	...	...	...	...	£ 1 8 11
By Balance	...	...	...	...	...	...	£ 119 6 1
							£ 119 6 1

BUCHANAN MEDAL FUND.

£258 9s. 2d. Metropolitan 3 per Cent. Stock.

[illegible]

(18.)

SYLVESTER MEDAL FUND.

£795 16s. 5d. Local Loans 3 per Cent. Stock.

£ s. d.
47 13 6

	£	s.	d.
To Balance ...	...	23	18 4
" Dividends ...	...	22	13 8
" Income Tax recovered ...	...	1	1 6

By Balance ...

£47 13 6

£47 13 6

(19.)

HUGHES MEDAL FUND.

£2,099 13s. 8d. Bath Corporation 3 per Cent. Redeemable Stock.

£2,022 14s. 1d. Local Loans 3 per Cent. Stock.

£ s. d.
20 8 3
103 8 10
193 6 11

	£	s.	d.
To Balance ...	...	194	1 7
" Dividends ...	...	117	9 10
" Income Tax recovered ...	...	5	12 7

By Gold Medal—Prof. A. Righi
" Gift
" Balance ...

£317 4 0

£317 4 0

SPECIAL EQUIPMENT ACCOUNT.

	£	s.	d.		£	s.	d.
To Balance from last Statement ...	...	...	...	By Balance	...	...	...
	2,000	0	0		2,000	0	0
	£2,000	0	0		£2,000	0	0

BUILDING FUND.

	£	s.	d.		£	s.	d.
To Balance from last Statement ...	...	...	...	By Buildings and Equipment	...	...	...
" Treasury Grant—First Instalment for 1906-7	5,000	0	0	" Balance...	...	...	...
" Goldsmiths' Company—Donation for Equipment of New Building	5,000	0	0		8,849	7	7
" Government of Western Australia—Donation towards establishment of a Long Comparator	1,000	0	0		2,350	12	5
" Government of New Zealand—Ditto	100	0	0				
	100	0	0		£11,200	0	0
	£11,200	0	0				

PENSION FUND ACCOUNT.

£3,228 14s. 1d. 2½ per Cent. Consolidated Stock.

	£	s.	d.		£	s.	d.
To Balance from last Statement ...	...	...	...	By Purchase of £518 8s. 11d. 2½ per Cent. Consols	485	7	2
" Annual Transfer from General Fund	32	3	4	" Balance...	38	6	6
" Dividends on Investments	400	0	0				
" Income Tax recovered ...	70	9	10				
	1	0	6				
	£503	13	8		£503	13	8

The following Table shows the progress and state of the Society with respect to the number of Fellows as at November 10, 1906 :—

	Patron and Royal.	Foreign.	Com- pounders.	£4 yearly.	£3 yearly.	Total.
Nov. 11, 1905 ..	2	46	112	72	288	520
Since Elected ..	..	..	1	1	15	17
Since Deceased ..	..	2	4	3	6	15
Nov. 10, 1906 ..	2	44	109	70	297	522

Account of Grants from the Donation Fund in 1905-6 :—

	£	s.	d.
South African Meridian Arc Survey (per British South Africa Company)	300	0	0
National Physical Laboratory, to meet expenses in connection with the ceremony of opening the new laboratories	60	0	0
Royal Society General Purposes Account, to refund extraordinary expenses incurred in connection with the change of issue of the "Proceedings"	375	0	0
Grants to the late Mr. Rix to supplement pension	100	0	0
	<u>£835</u>	<u>0</u>	<u>0</u>

MINUTES OF MEETINGS OF THE ROYAL SOCIETY.

January 18, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Mr. Samuel Hough (elected 1902) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

In pursuance of the Statutes, the names of Candidates for election into the Society were read as follows :—

Adams, Frank Dawson.	Forbes, Henry Ogg.
Anderson, Hugh Kerr.	Fox, Francis.
Anderson, Tempest.	Gamble, Frederick William.
Andrews, Charles William.	Gardiner, John Stanley.
Baly, Edward Charles Cyril.	Garrod, Archibald Edward.
Barlow, Sir Thomas.	Garwood, Professor Edmund.
Bather, Francis Arthur.	Johnston.
Beilby, George Thomas.	Gowland, Professor William.
Biles, Professor John Harvard	Gray, Professor Thomas.
Blackman, Frederick Frost.	Green, Professor Arthur George.
Blakesley, Thomas Holmes.	Hadfield, Robert Abbott.
Blythswood, Lord.	Hall, Alfred Daniel.
Braithwaite, Robert.	Hamilton, Professor David James.
Bromwich, Thomas John I'Anson.	Harker, John Allen.
Bruce, John Mitchell.	Harmer, Frederic William.
Budge, Ernest A. Wallis.	Heape, Walter.
Chattaway, Frederick Daniel.	Hoyle, William Evans.
Chattock, Arthur Prince.	Innes, Robert Thorburn Ayton.
Cowell, Philip Herbert.	Jeans, Professor James Hopwood.
Crompton, Rookes Evelyn B.	Knott, Cargill Gilston.
Crossley, Arthur William.	Lees, Charles H.
Cushny, Professor Arthur Robert- son.	Lewis, William James.
Dixon, Professor Henry H.	Lyons, Capt. Henry George.
Donnan, Professor Frederick George.	Macallum, Archibald B.
Durston, Sir Albert John.	McFadyean, Sir John.
	Major, Charles Immanuel Forsyth.
	Marsh, Howard.

Marsh, James Ernest.	Sidgreaves, Rev. Walter.
Masterman, Arthur Thomas.	Smith, Professor Grafton Elliot.
Matthey, Edward.	Smith, James Lorrain.
Maunder, Edward Walter.	Stapf, Otto.
Mill, Hugh Robert.	Stromeyer, Johann Phillip E. C.
Mitchell, Peter Chalmers.	Swinburne, James.
Moore, John Edmond Shorec.	Swinton, Alan Archibald Campbell.
Morley, Professor Frank.	Thorpe, Jocelyn Field.
Oliver, George.	Treves, Sir Frederick.
Parsons, Professor Frederick Gymer.	Vernon, Horace Middleton.
Pembrey, Marcus Seymour.	Willis, John Christopher.
Petavel, John Ernest.	Wilson, Harold A.
Plimmer, Henry G.	Wilson, Professor James Thomas.
Pocock, Reginald Innes.	Wright, Almroth Edward.
Ridley, Henry Nicholas.	Young, Professor Alfred H.
Sclater, William Lutley.	Young, William Henry.
Sharpe, R. Bowdler.	

The following Papers were read :—

- I. "The Factors which Determine the Production of Intraocular Fluid." By E. E. HENDERSON and Professor E. H. STARLING, F.R.S.
- II. "A Critical Account of some Anomalous Conditions of the Cerebrum in the Human Fœtus." By Dr. W. L. H. DUCKWORTH. Communicated by Professor A. MACALISTER, F.R.S.
- III. "A Case of Regeneration in Polychæte Worms." By A. T. WATSON. Communicated by Professor C. S. SHERINGTON, F.R.S.
- IV. "On the Infection, Histology, and Development of the Uredo Stage in certain Uredinæ." By I. B. P. EVANS. Communicated by Professor H. MARSHALL WARD, F.R.S.
- V. "On the Synapsis in Amphibia." By J. E. S. MOORE and Miss A. L. EMBLETON. Communicated by Professor J. B. FARMER, F.R.S.
- VI. "On the Constancy of Form among the Synaptic Gemini (Heterotype Chromosomes) in Certain Animals." By J. E. S. MOORE and G. ARNOLD. Communicated by Professor J. B. FARMER, F.R.S.

- VII. "The Growth of the Oocyte in Antedon: a Morphological Study in the Cell Metabolism." By G. C. CHUBB. Communicated by Professor E. H. STARLING, F.R.S.
- VIII. "Observations on the Life-History of Leucocytes." By C. E. WALKER. Communicated by Professor C. S. SHERINGTON, F.R.S.
- IX. "A Study of the Mechanism of Carbon Assimilation in Green Plants." By F. L. USHER and J. H. PRIESTLEY. Communicated by Professor M. W. TRAVERS, F.R.S.
- X. "Note on the Progeny of Chestnut Thoroughbred Horses." By W. F. R. WELDON, F.R.S.
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January 25, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, followed by the Treasurer, in the Chair.

Professor John George Adami (elected 1905) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "Experiments on the Chemical Behaviour of Argon and Helium." By Dr. W. T. COOKE. Communicated by Sir W. RAMSAY, K.C.B., F.R.S.
- II. "The Vapour Pressure in Equilibrium with Substances holding Varying Amounts of Moisture." Parts I and II. By Professor F. T. TROUTON, F.R.S., and Miss B. POOL.
- III. "Note on Heusler's Magnetic Alloy of Manganese, Aluminium, and Copper." By Professor A. GRAY, F.R.S.
- IV. "On the Overstraining of Iron by Tension and Compression." By Dr. J. MUIR. Communicated by Professor A. GRAY, F.R.S.

- V. "On the Effect of High Temperature on Radium Emanation." By W. MAKOWER. Communicated by Professor A. SCHUSTER, F.R.S.
- VI. "Observations and Photographs of Black and Grey Soap Films." By H. STANSFIELD. Communicated by Professor A. SCHUSTER, F.R.S.
- VII. "Galvanic Cells produced by the Action of Light. The Chemical Statics and Dynamics of Reversible and Irreversible Systems under the Influence of Light." Second communication. By Dr. M. WILDERMAN. Communicated by Dr. L. MOND, F.R.S.
- VIII. "Artificial Double Refraction due to *Æolotropic* Distribution, with Application to Colloidal Solution and Magnetic Fields." By T. H. HAVELOCK. Communicated by Professor J. LARMOR, Sec. R.S.
- IX. "An Electrical Measuring Machine for Engineering Gauges and other Bodies." By Dr. P. E. SHAW. Communicated by Professor J. H. POYNTING, F.R.S.
- X. "The Relation between the Osmotic Pressure and the Vapour Pressure of a Solution." By W. SPENS. Communicated by W. C. D. WHETHAM, F.R.S.
- XI. "The Elliptic Integral in Electro-magnetic Theory." By Professor A. G. GREENHILL, F.R.S.
- XII. "On the Simple Group of Order 25920." By Professor W. BURNSIDE, F.R.S.
- XIII. "On Metallic Reflection and the Influence of the Layer of Transition." By Professor R. C. MACLAURIN. Communicated by Professor J. LARMOR, Sec. R.S.

February 1, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, followed by Sir LAUDER BRUNTON, Vice-President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On the Filtration of Crystalloids and Colloids through Gelatine, with Special Reference to the Behaviour of Hæmolytins." By J. A. CRAW. Communicated by Dr. L. HILL, F.R.S.
- II. "Chemical Action of *Bacillus lactis aerogenes* (Escherich) on Glucose and Mannitol: Production of 2:3-Butyleneglycol and Acetylmethylcarbinol." By Dr. A. HARDEN and G. S. WALPOLE. Communicated by Dr. C. J. MARTIN, F.R.S.
- III. "On Voges and Proskauer's Reaction for certain Bacteria." By Dr. A. HARDEN. Communicated by Dr. C. J. MARTIN, F.R.S.
- IV. "The Quantitative Estimation of Small Quantities of Nickel in Organic Substances." By H. W. ARMIT and Dr. A. HARDEN. Communicated by Dr. C. J. MARTIN, F.R.S.
- V. "The Alcoholic Ferment of Yeast-Juice." By Dr. A. HARDEN and W. J. YOUNG. Communicated by Dr. C. J. MARTIN, F.R.S.
- VI. "On the Function of Silica in the Nutrition of Cereals. Part I. By A. D. HALL and C. G. T. MORISON. Communicated by Professor H. E. ARMSTRONG, F.R.S.
- VII. "On the Origin of the Sertoli or Foot Cells of the Testis." By C. E. WALKER and Miss A. L. EMBLETON. Communicated by Professor C. S. SHERRINGTON, F.R.S.
- VIII. "Studies on Enzyme Action—Lipase." By MAURICE NICLOUX. Communicated by Professor HALLIBURTON, F.R.S.
- IX. "A Further Communication on the Specificity and Action *in Vitro* of Gastrot toxin." By Dr. C. BOLTON. Communicated by Dr. S. MARTIN, F.R.S.

February 8, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On Roche's Ellipsoids and on Allied Problems relating to Satellites." By Sir GEORGE H. DARWIN, K.C.B., F.R.S.

- II. "Polarisation in Secondary Röntgen Radiation." By Dr. C. G. BARKLA. Communicated by Professor J. J. THOMSON, F.R.S.
- III. "Ionic Size in Relation to the Physical Properties of Aqueous Solutions." By W. R. BOUSFIELD, K.C. Communicated by Professor J. LARMOR, Sec. R.S.
- IV. "Explosions of Coal-Gas and Air." By Professor B. HOPKINSON. Communicated by Professor EWING, F.R.S.
- V. "On Periodicities in Sunspots." By Professor A. SCHUSTER, F.R.S.
- VI. "Constants of Explosion of Cordite and of Modified Cordite." By Dr. ROBERT ROBERTSON. Communicated by Colonel H. C. L. HOLDEN, F.R.S.

February 15, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "The Influence of Increased Barometric Pressure on Man. No. 1." By Dr. L. HILL, F.R.S., and M. GREENWOOD.
- II. "On the Existence of Cell-Communications between Blastomeres." By C. SHEARER. Communicated by ADAM SEDGWICK, F.R.S.
- III. "Innervation of Antagonistic Muscles. Ninth Note.—Successive Spinal Induction." By Professor C. S. SHERRINGTON, F.R.S.
- IV. "The Chemical Constitution of Protoplasm as shown by the Rate of Tissue Disintegration." By Dr. H. M. VERNON. Communicated by Professor F. GOTCH, F.R.S.
- V. "The Development of the Head-Muscles of the Common Fowl (*Gallus domesticus*), together with some Remarks on the Head-Muscles of Reptiles." By Professor F. H. EDGEWORTH. Communicated by Professor A. MACALISTER, F.R.S.
- VI. "Observations on the Labyrinth of certain Animals." By A. A. GRAY, M.D., F.R.S.E. Communicated by Professor J. G. MCKENDRICK, F.R.S.

February 22, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Mr. Gilbert Thomas Walker (elected 1904) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On the Coefficient of Viscous Traction and its Relation to that of Viscosity." By Professor F. T. TROUTON, F.R.S.
- II. "Contributions to our Knowledge of the Poison Plants of Western Australia. Part I.—Cynnine." By E. A. MANN and W. H. INCE. Communicated by Professor NORMAN COLLIE, F.R.S.

March 1, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

In pursuance of the Statutes, the names of the Candidates recommended for election were read from the Chair as follows :—

Andrews, Charles William.	Lyons, Henry George, Capt. R.E.
Beilby, George Thomas.	Macallum, Archibald B.
Blackman, Frederick Frost.	Marsh, James Ernest.
Bromwich, Thomas John P'Anson.	Mitchell, Peter Chalmers.
Cowell, Philip Herbert.	Swinburne, James.
Heape, Walter.	Wilson, Harold A.
Jeans, James Hopwood.	Wright, Almroth Edward.
Lees, Charles Herbert.	

The following Papers were read :—

- I. "An Experimental Enquiry into the Factors which Determine the Growth and Activity of the Mammary Glands." By Miss J. E. LANE-CLAYPON and Professor E. H. STARLING, F.R.S.

- II. "The Specificity of the Opsonic Substances in the Blood Serum." By Dr. W. BULLOCH and G. T. WESTERN. Communicated by LEONARD HILL, F.R.S.
- III. "The Internal Anatomy of Stomoxys." By Lieut. F. TULLOCH, R.A.M.C. Communicated by Professor E. RAY LANKESTER, F.R.S.
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March 8, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "The Microscopic Changes in the Nervous System in a Case of Chronic Dourine or 'Mal de Coit,' and Comparison of the Same with those found in Sleeping Sickness." By Dr. F. W. MOTT, F.R.S.
- II. "On the Relationship between Hæmolysis and Phagocytosis of Red Blood Cells." By Dr. R. D. KEITH. Communicated by Dr. LEONARD HILL, F.R.S.
- III. "Upon the Properties of an Antityphoid Serum obtained from the Goat." By Dr. A. MACFADYEN. Communicated by Dr. C. J. MARTIN, F.R.S.
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March 15, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "A Discussion of Atmospheric Electric Potential Results at Kew from Selected Days during the Seven Years 1898 to 1904." By Dr. C. CHREE, F.R.S.

- II. "On the Specific Heat of, Heat Flow from, and other Phenomena of the Working Fluid in the Cylinder of the Internal Combustion Engine." By DUGALD CLERK. Communicated by the Hon. C. A. PARSONS, C.B., F.R.S.
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March 22, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The Bakerian Lecture "On Recent Advances in Seismology" was delivered by Professor JOHN MILNE, F.R.S.

The following Papers were read:—

- I. "On Methods whereby the Radiation of Electric Waves may be Mainly Confined to Certain Directions, and whereby the Receptivity of a Receiver may be Restricted to Electric Waves Emanating from Certain Directions." By CHEVALIER G. MARCONI. Communicated by Professor FLEMING, F.R.S.
- II. "A Note on the Theory of Directive Antennæ or Unsymmetrical Hertzian Oscillators." By Professor J. A. FLEMING, F.R.S.
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March 29, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "On the Dilatational Stability of the Earth." By LORD RAYLEIGH, O.M., Pres. R.S.
- II. "On the Observations of Stars made in some British Stone Circles. Second Note." By Sir J. NORMAN LOCKYER, K.C.B., F.R.S.
- III. "The Calculation of Ellipsoidal Harmonics." By Sir WILLIAM D. NIVEN, K.C.B., F.R.S.

April 5, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On Retardation of the Discharge of an Electroscope by means of certain Radio-active and other Substances." By Dr. W. S. LAZARUS-BARLOW. Communicated by Sir WILLIAM RAMSAY, K.C.B., F.R.S.
- II. "On a Mineral which retards the Rate of Discharge of an Electroscope." By Dr. E. H. BÜCHNER. Communicated by Sir WILLIAM RAMSAY, K.C.B., F.R.S.
- III. "On a New Method of obtaining Continuous Currents from a Magnetic Detector of the Self-restoring Type." By L. H. WALTER. Communicated by Professor EWING, F.R.S.
- IV. "On the Distribution of Radium in the Earth's Crust, and on the Earth's Internal Heat." By Hon. R. J. STRUTT, F.R.S.
- V. "On the Physiological Action of a recently discovered African Arrow Poison." By Dr. C. BOLTON. Communicated by Professor S. MARTIN, F.R.S.

The Society adjourned over the Easter Recess to Thursday, May 3.

May 3, 1906.

Annual Meeting for the Election of Fellows.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

The Statutes relating to the Election of Fellows having been read, Mr. Horace Brown and Professor Schäfer were, with the consent of the Society, nominated Scrutators, to assist the Secretaries in the examination of the balloting lists.

The votes of the Fellows present were collected, and the following Candidates were declared duly elected into the Society :—

Andrews, Charles William.	Lyons, Henry George, Captain R.E.
Beilby, George Thomas.	Macallum, Archibald B.
Blackman, Frederick Frost.	Marsh, James Ernest.
Bromwich, Thomas John I.A.	Mitchell, Peter Chalmers.
Cowell, Philip Herbert.	Swinburne, James.
Heape, Walter.	Wilson, Harold A.
Jeans, James Hopwood.	Wright, Almroth Edward.
Lees, Charles Herbert.	

Thanks were given to the Scrutators.

May 3, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On a Static Method of Comparing the Densities of Gases.
By R. THRELFALL, F.R.S.
- II. "The Stability of Submarines." By Sir WILLIAM H. WHITE,
K.C.B., F.R.S.
- III. "The Action on Bacteria of Electrical Discharges of High
Potential and Rapid Frequency." By A. G. R. FOULERTON
and A. M. KELLAS. Communicated by Professor J. ROSE
BRADFORD, F.R.S.
- IV. "The Action of Pituitary Extracts upon the Kidney." By
Professor E. A. SCHÄFER, F.R.S., and P. T. HERRING.

May 10, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, followed by Professor
TILDEN, Vice-President, in the Chair.

Mr. George Thomas Beilby, Dr. Peter Chalmers Mitchell, Mr.
James Swinburne, and Professor Harold A. Wilson were admitted into
the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On Adsorption and Occlusion : the Law of Distribution in the case in which one of the Phases possesses Mechanical Rigidity." By Professor M. W. TRAVERS, F.R.S.
- II. "Cyanogenesis in Plants. Part IV—The Occurrence of Phaseolunatin in Common Flax (*Linum usitatissimum*) ; Part V—The Occurrence of Phaseolunatin in Cassava (*Manihot Aipi* and *Manihot utilissima*)." By Professor W. R. DUNSTAN, F.R.S., Dr. T. A. HENRY, and Dr. S. J. M. AULD.
- III. "A Variety of Thorianite from Galle, Ceylon." By Professor W. R. DUNSTAN, F.R.S., and B. MOUAT JONES.
- IV. "The Mechanism of Carbon Assimilation in Green Plants ; the Photolytic Decomposition of Carbon Dioxide *in Vitro*." By F. L. USHER and J. H. PRIESTLEY. Communicated by Professor M. W. TRAVERS, F.R.S.
- V. "The Action of Anæsthetics on Living Tissues. Part II—The Frog's Skin." By Dr. N. H. ALCOCK. Communicated by Dr. A. D. WALLER, F.R.S.

May 17, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Dr. Charles William Andrews, Mr. Philip Herbert Cowell, Mr. Walter Heape, Captain Henry George Lyons, Mr. James Ernest Marsh, and Dr. Almroth Edward Wright were admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "Determinations of Wave-Length from Spectra obtained at the Total Solar Eclipses of 1900, 1901, and 1905." By Professor F. W. DYSON, F.R.S.

- II. "Some Stars with Peculiar Spectra." By Sir NORMAN LOCKYER, K.C.B., F.R.S., and F. E. BAXANDALL.
 - III. "An Apparent Periodicity in the Yield of Wheat for Eastern England, 1885-1905." By Dr. W. N. SHAW, F.R.S.
 - IV. "Some Physical Constants of Ammonia: a Study of the Effect of Change of Temperature and Pressure on an Easily Condensable Gas." By Dr. E. P. PERMAN and J. H. DAVIES. Communicated by Professor E. H. GRIFFITHS, F.R.S.
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May 24, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Mr. Frederick Frost Blackman, Professor Thomas John I'Anson Bromwich, and Dr. Charles Herbert Lees were admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The Croonian Lecture—"On Nerve-Endings and on Special Excitable Substances in Cells"—was delivered by Professor J. N. LANGLEY, F.R.S.

May 31, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

The Right Hon. the Lord Curzon of Kedleston, elected 1898, was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "On the Main Source of 'Precipitable' Substances and on the *Rôle* of the Homologous Proteid in Precipitin Reactions." By D. A. WELSH and H. G. CHAPMAN. Communicated by Dr. C. J. MARTIN, F.R.S.

- II. "The Viscosity of the Blood." By A. DU PRE DENNING and J. H. WATSON. Communicated by Professor F. GOTCH, F.R.S.
 - III. "The Affinity Constants of Amphoteric Electrolytes. I.—Methyl-Derivatives of Para-Aminobenzoic Acid and of Glycine." By J. JOHNSTON. Communicated by Professor J. WALKER, F.R.S.
 - IV. "The Affinity Constants of Amphoteric Electrolytes. II.—Methyl Derivatives of Ortho- and Meta-Aminobenzoic Acids." By A. C. CUMMING. Communicated by Professor J. WALKER, F.R.S.
 - V. "The Affinity Constants of Amphoteric Electrolytes. III.—Methylated Amino-Acids." By Professor J. WALKER, F.R.S.
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June 7, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, followed by Mr. A. B. KEMPE, Treasurer, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "On the Osmotic Pressures of some Concentrated Solutions." By the EARL OF BERKELEY and E. G. J. HARTLEY. Communicated by W. C. D. WHETHAM, F.R.S.
- II. "On the Regeneration of Bone." By Sir WILLIAM MACEWEN, F.R.S.
- III. "The Effects of Self-induction in an Iron Cylinder." By Professor E. WILSON. Communicated by Sir W. H. PREECE, K.C.B., F.R.S.
- IV. "An Account of the Pendulum Observations Connecting Kew and Greenwich Observatories, made in 1903." By Major G. P. LENOX-CONYNGHAM. Communicated by Dr. R. T. GLAZEBROOK, F.R.S.
- V. "On the Myelins, Myelin Bodies, and Potential Fluid Crystals of the Organism." By Professor J. G. ADAMI, F.R.S., and Professor L. ASCHOFF.

June 14, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, followed by Sir LAUDER BRUNTON, Vice-President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "The Experimental Analysis of the Growth of Cancer." By Dr. E. F. BASHFORD, J. A. MURRAY, and W. H. BOWEN. Communicated by Professor J. ROSE BRADFORD, F.R.S.
- II. "On the Electrical and Photographic Phenomena Manifested by Certain Substances that are Commonly Supposed to be *Ætiologically* Associated with Carcinoma." By Dr. W. S. LAZARUS-BARLOW. Communicated by Professor J. ROSE BRADFORD, F.R.S.
- III. "The Bone Marrow : a Cytological Study Forming an Introduction to the Normal and Pathological Histology of the Tissue." By Dr. W. E. CARNEGIE DICKSON. Communicated by Professor SCHÄFER, F.R.S.
- IV. "On the Relation of the Liver Cells to the Blood Vessels and Lymphatics." By Dr. P. T. HERRING and Dr. S. SIMPSON. Communicated by Professor E. A. SCHÄFER, F.R.S.
- V. "Studies on Enzyme Action. Lipase : II." By Professor H. E. ARMSTRONG, F.R.S., and Dr. E. ORMEROD.
- VI. "Studies of the Processes Operative in Solutions. I.—The Sucroclastic Action of Acids as Influenced by Salts and Non-electrolytes." By R. J. CALDWELL. Communicated by Professor H. E. ARMSTRONG, F.R.S.
- VII. "The Origin of Osmotic Effects." By Professor H. E. ARMSTRONG, F.R.S.

June 21, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Professor Henry T. Bovey (elected 1902) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read :—

- I. "The Transition from the Liquid to the Solid State, and the Foam-structure of Matter." By Professor G. QUINCKE, For.Mem. R.S.
- II. "Experimental Evidence of Ionic Migration in the Natural Diffusion of Acids and Salts." By R. G. DURRANT. Communicated by W. A. SHENSTONE, F.R.S.
- III. "On the Behaviour of Certain Substances at their Critical Temperatures." By Professor M. W. TRAVERS, F.R.S., and F. L. USHER.
- IV. "Note on the Phenomenon of Opalescence at the Critical Temperature." By Professor S. YOUNG, F.R.S.
- V. "Ionic Velocities in Gases at Different Temperatures." By P. PHILLIPS. Communicated by Professor J. J. THOMSON, F.R.S.
- VI. "The Action of Radium and Certain other Salts on Gelatin." By W. A. DOUGLAS RUDGE Communicated by Professor J. J. THOMSON, F.R.S
- VII. "Barometric Variations of Long Duration over Large Areas." By Dr. W. J. S. LOCKYER. Communicated by Sir NORMAN LOCKYER, K.C.B., F.R.S.
- VIII. "On the Electric Inductive Capacities of Dry Paper and of Solid Cellulose." By A. CAMPBELL. Communicated by Dr. R. T. GLAZEBROOK, F.R.S.
- IX. "On the Distribution of Radium in the Earth's Crust. Part II.—Sedimentary Rocks. Part III.—Rock-forming Minerals." By the Hon. R. J. STRUTT, M.A., F.R.S.

June 28, 1906.

LORD RAYLEIGH, O.M., D.C.L., President, in the Chair.

Thomas Henry Holland (elected 1904) and Professor James Hopwood Jeans were admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "Sex-determination in Hydatina, with some Remarks on Parthenogenesis." By R. C. PUNNETT. Communicated by A. SEDGWICK, F.R.S.
- II. "On the Julianiaceæ, a New Natural Order of Plants." By W. B. HEMSLEY, F.R.S.
- III. "On Regeneration of Nerves." By Dr. F. W. MOTT, F.R.S., Professor W. D. HALLIBURTON, F.R.S., and A. EDMUNDS.
- IV. "The Pharmacology of Ethyl Chloride." By Dr. E. H. EMBLEY. Communicated by Dr. C. J. MARTIN, F.R.S.
- V. "The Alcoholic Ferment of Yeast Juice. Part II.—The Co-ferment of Yeast Juice." By Dr. A. HARDEN and W. J. YOUNG. Communicated by Dr. C. J. MARTIN, F.R.S.
- VI. "Total Eclipse of the Sun, August 30, 1905. Account of the Observations made by the Solar Physics Observatory Eclipse Expedition and the Officers and Men of H.M.S. 'Venus,' at Palma, Majorca." By Sir NORMAN LOCKYER, K.C.B., F.R.S., and others.
- VII. "Researches on Explosives. Part IV." By Sir ANDREW NOBLE, Bart., K.C.B., F.R.S.
- VIII. "Tidal Régime of the River Mersey, as Affected by the Recent Dredgings at the Bar, in Liverpool Bay." By J. N. SHOOLBRED. Communicated by LORD KELVIN, O.M., F.R.S.
- IX. "The Refractive Indices of Water and Sea-water." By J. W. GIFFORD. Communicated by W. A. SHENSTONE, F.R.S.
- X. "The Ionisation Produced by Hot Platinum in Different Gases." By O. W. RICHARDSON. Communicated by Professor J. J. THOMSON, F.R.S.
- XI. "The Action of Plants on a Photographic Plate in the Dark." By Dr. W. J. RUSSELL, F.R.S.
- XII. "On the Ultra-Violet Spectrum of Ytterbium." By Sir WILLIAM CROOKES, F.R.S.
- XIII. "On the 'Kew' Scale of Temperature and its Relation to the International Hydrogen Scale." By Dr. J. A. HARKER. Communicated by Dr. R. T. GLAZEBROOK, F.R.S.

- XIV. "Note on the Production of Secondary Rays by ' α ' Rays from Polonium." By W. H. LOGEMAN. Communicated by Professor J. J. THOMSON, F.R.S.
- XV. "The Hygroscopic Action of Cotton." By Professor ORME MASSON, F.R.S., and E. S. RICHARDS.
- XVI. "An Investigation of Electric Fields on Spectral Lines." By Professor G. F. HULL. Communicated by Professor LARMOR, Sec. R.S.
- XVII. "The Electrostatic Deviation of α Rays from Radio-tellurium." By Professor W. B. HUFF. Communicated by Professor J. J. THOMSON, F.R.S.

November 1, 1906.

Sir W. D. NIVEN, Vice-President, in the Chair.

Professor Archibald B. Macallum was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The Right Hon. Richard Burdon Haldane and the Right Hon. Viscount Iveagh were balloted for and elected Fellows of the Society.

The following Papers, received during the Recess, and published or in course of publication, in accordance with the Standing Orders of Council, were read in title:—

- "*Glossina palpalis* in its Relation to *Trypanosoma gambiense* and other Trypanosomes (Preliminary Report)." By E. A. MINCHIN, M.A., Lieutenant A. C. H. GRAY, R.A.M.C., and the late Lieutenant F. M. G. TULLOCH, R.A.M.C. (Sleeping Sickness Commission).
- "A Method for determining Velocities of Saponification." By Professor JAMES WALKER, F.R.S.

The following Papers were read:—

- I. "On Intravascular Coagulation in Albinoes and Pigmented Animals, and on the Behaviour of the Nucleo-proteids of Testes in Solution in the Production of Intravascular Coagulation." By G. P. MUDGE. Communicated by Dr. A. D. WALLER, F.R.S.

- II. "Nitrification of Sewage." By Dr. G. REID. Communicated by Professor F. GOTCH, F.R.S.
- III. "A General Consideration of the Subaerial and Fresh-water Algal Flora of Ceylon." By Dr. F. E. FRITSCH. Communicated by Professor F. W. OLIVER, F.R.S.
- IV. "The Anæsthetic and Lethal Quantity of Chloroform in the Blood of Animals." By Dr. G. A. BUCKMASTER and J. A. GARDNER. Communicated by Dr. A. D. WALLER, F.R.S.
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November 8, 1906.

Lord RAYLEIGH, O.M., D.C.L., President, in the Chair.

The Right Hon. Richard Burdon Haldane and the Right Hon. Viscount Iveagh were admitted into the Society.

His Royal Highness the Duke of Connaught was balloted for and elected a Fellow of the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "The Occurrence of Encystation in *Trypanosoma grayi* (Novy); with Remarks on Methods of Infection in Trypanosomes generally." By Professor E. A. MINCHIN. Communicated by Professor E. RAY LANKESTER, F.R.S.
- II. "Note on the Continuous Rays observed in the Spark Spectra of Metalloids and some Metals." By Professor W. N. HARTLEY, F.R.S.
- III. "The Composition of Thorianite, and the Relative Radio-activity of its Constituents." By Dr. E. H. BÜCHNER. Communicated by Sir WILLIAM RAMSAY, K.C.B., F.R.S.
- IV. "A Numerical Examination of the Optical Properties of Thin Metallic Plates." By Professor R. C. MACLAURIN. Communicated by Professor J. LARMOR, Sec. R.S.

- V. "On a Compensated Micro-manometer." By B. J. P. ROBERTS. Communicated by Sir J. I. THORNYCROFT, F.R.S.
- VI. "Experimental Investigation as to the Dependence of Gravity on Temperature." By L. SOUTHERNS. Communicated by Professor W. M. HICKS, F.R.S.
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November 15, 1906.

Lord RAYLEIGH, O.M., D.C.L., President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

Professor J. Rose Bradford, Dr. A. E. H. Tutton, and Mr. W. Whitaker were elected Auditors of the Treasurer's Accounts on the part of the Society.

In pursuance of the Statutes, notice of the ensuing Anniversary Meeting was given from the Chair.

The following papers were read:—

- I. "Calcium as an Absorbent of Gases, and its Applications in the Production of High Vacua and for Spectroscopic Research." By F. SODDY. Communicated by Professor J. LARMOR, Sec. R.S.
- II. "A Method of Gauging by Evaporation the Degree of High Vacua." (Addendum to Mr. F. Soddy's paper.) By A. J. BERRY. Communicated by Professor J. LARMOR, Sec. R.S.
- III. "The Effect of Temperature on the Activity of Radium and its Transformation Products." By Dr. H. L. BRONSON. Communicated by Professor E. RUTHERFORD, F.R.S.
- IV. "On the Refractive Indices of Gaseous Potassium, Zinc, Cadmium, Mercury, Arsenic, Selenium, and Tellurium." By C. CUTHBERTSON and E. P. METCALFE. Communicated by Professor F. T. TROUTON, F.R.S.
- V. "The Photo-Electric Fatigue of Zinc." By H. S. ALLEN. Communicated by Professor H. A. WILSON, F.R.S.
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November 22, 1906.

Sir LAUDER BRUNTON, Vice-President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

In pursuance of the Statutes, notice of the ensuing Anniversary Meeting was given from the Chair, and the List of the Officers and Council for the ensuing year, proposed by the Council for election, was read as follows:—

President.—The Right Hon. the Lord Rayleigh, O.M., M.A., D.C.L.

Treasurer.—Alfred Bray Kempe, M.A.

Secretaries.—{ Professor Joseph Larmor, D.Sc., D.C.L., LL.D.
{ Sir Archibald Geikie, D.C.L., Sc.D., LL.D.

Foreign Secretary.—Francis Darwin, M.A., M.B.

Other Members of the Council.—The Right Hon. the Lord Avebury, D.C.L.; Sir Benjamin Baker, K.C.B.; Henry Frederick Baker, Sc.D.; Professor J. Norman Collie, Ph.D.; Professor Wyndham R. Dunstan, M.A.; Professor David Ferrier, M.D.; Professor Sydney J. Hickson, D.Sc.; Sir William Huggins, K.C.B., O.M.; Professor Edwin Ray Lankester, M.A.; Hugh Frank Newall, M.A.; Alexander Scott, D.Sc.; Albert Charles Seward, M.A.; Professor William Johnson Sollas, Sc.D.; Professor Ernest Henry Starling, M.D.; Professor Silvanus Phillips Thompson, D.Sc.; Augustus Désiré Waller, M.D.

The following papers were read:—

- I. "Studies on the Development of Larval Nephridia. Part II.—*Polygordius.*" By Dr. CRESSWELL SHEARER. Communicated by A. SEDGWICK, F.R.S.
- II. "The Structure of Nerve Fibres." By Professor J. S. MACDONALD. Communicated by Professor C. S. SHERRINGTON, F.R.S.
- III. "On Oponins in Relation to Red Blood Cells." By Dr. J. O. WAKELIN BARRATT. Communicated by Dr. C. J. MARTIN, F.R.S.
- IV. "On the Inheritance of Certain Invisible Characters in Peas." By R. H. LOCK. Communicated by W. BATESON, F.R.S.

- V. "The Influence of Increased Barometric Pressure on Man. No. 2." By LEONARD HILL, F.R.S., and M. G. GREENWOOD.
- VI. "The Influence of the Kidneys on Metabolism." By Dr. F. A. BAINBRIDGE and Dr. A. P. BEDDARD. Communicated by Professor E. H. STARLING, F.R.S.

November 30, 1906.

ANNIVERSARY MEETING.

Mr. A. B. KEMPE, Treasurer, in the Chair.

The Report of the Auditors of the Treasurer's accounts was read, and the thanks of the Society were given to the Treasurer and to the Auditors.

The List of Fellows deceased and the List of Fellows elected into the Society since the last Anniversary were read.

The Report to the Society from the Council, upon the work during the past year, was, upon the motion of the Chairman, received.

The Treasurer read the Anniversary Address of the President, in his absence through illness.

On the motion of Sir John Murray, seconded by Admiral Sir H. B. Jackson, the thanks of the Society were voted to the President for his Address.

The Awards of the Medals for the year were announced as follows, and the Medals were presented from the Chair:—

The Copley Medal.....	To Prof. Elias Metchnikoff, For. Mem. R.S.
The Rumford Medal ...	„ Prof. H. L. Callendar, F.R.S.
A Royal Medal	„ Prof. A. G. Greenhill, F.R.S.
A Royal Medal	„ Dr. D. H. Scott, F.R.S.
The Davy Medal	„ Prof. Rudolf Fittig.
The Darwin Medal	„ Prof. Hugo de Vries, For. Mem. R.S.
The Hughes Medal	„ Mrs. W. E. Ayrtton.

The Chairman having, with the consent of the Society, nominated Mr. Clement Reid and Professor H. H. Turner as Scrutators, to assist the Secretaries in examining the balloting lists for the election of Council

and Officers, the votes of the Fellows present were taken. The Scrutators reported that the Council and Officers nominated at the preceding meeting had been duly elected, and their names were accordingly announced from the Chair.

The thanks of the Society were given to the Scrutators.

December 6, 1906.

Dr. FERRIER, Vice-President, in the Chair.

A List of the Presents received was laid on the table, and thanks ordered for them.

The Chairman announced that the President had appointed as Vice-Presidents—

The Treasurer.
Sir Benjamin Baker.
Dr. Ferrier.
Sir William Huggins.

The following Papers were read :—

- I. "A Comparison of Values of the Magnetic Elements deduced from the British Magnetic Survey of 1891 with Recent Observation." By W. ELLIS, F.R.S.
 - II. "The Theory of the Compositions of Numbers.—Part II." By Major P. A. MACMAHON, F.R.S.
 - III. "On the Transpiration Current in Plants." By Professor H. H. DIXON. Communicated by Professor J. JOLY, F.R.S.
 - IV. "The Theory of Photographic Processes. Part III.—The Latent Image and its Destruction." By S. E. SHEPPARD and C. E. K. MEES. Communicated by Sir W. RAMSAY, K.C.B., F.R.S.
 - V. "The Chemistry of Globulin." By W. SUTHERLAND. Communicated by Dr. C. J. MARTIN, F.R.S.
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December 13, 1906.

Sir WILLIAM HUGGINS, Vice-President, followed by the Treasurer in the Chair.

His Royal Highness the Duke of Connaught (elected November 8) was admitted into the Society.

A List of the Presents received was laid on the table, and thanks ordered for them.

The following Papers were read:—

- I. "The Relation between Breaking Stress and Extension in Tensile Tests of Steel." By A. MALLOCK, F.R.S.
- II. "On the Intensity of Light Reflected from Transparent Substances." By Professor R. C. MACLAURIN. Communicated by Professor J. LARMOR, Sec. R.S.
- III. "Contributions to our Knowledge of the Poison Plants of Western Australia. Part II.—*Oxylobium parviflorum*—Lobine." By E. A. MANN and Dr. W. H. INCE. Communicated by Professor J. N. COLLIE, F.R.S.
- IV. "Experiments on the Length of the Cathode Dark Space with Varying Current Densities and Pressures in Different Gases." By F. W. ASTON. Communicated by Professor J. H. POYNTING, F.R.S.
- V. "An Examination of the Lighter Constituents of Air." By J. E. COATES. Communicated by Sir WILLIAM RAMSAY, K.C.B., F.R.S.
- VI. "The Velocity of the Negative Ions in Flames." By E. GOLD. Communicated by Professor H. A. WILSON, F.R.S.
- VII. "The Electric or Magnetic Polarisation of a Thin Cylinder of Finite Length by a Uniform Field of Force." By Dr. T. H. HAVELOCK. Communicated by Professor J. LARMOR, Sec. R.S.

- VIII. "Further Observations on the Effects produced on Rats by the Trypanosomata of Gambia Fever and of Sleeping Sickness."
By H. G. PLIMMER. Communicated by Dr. C. J. MARTIN,
F.R.S.

The Society adjourned over the Christmas Recess to Thursday,
January 17, 1907.

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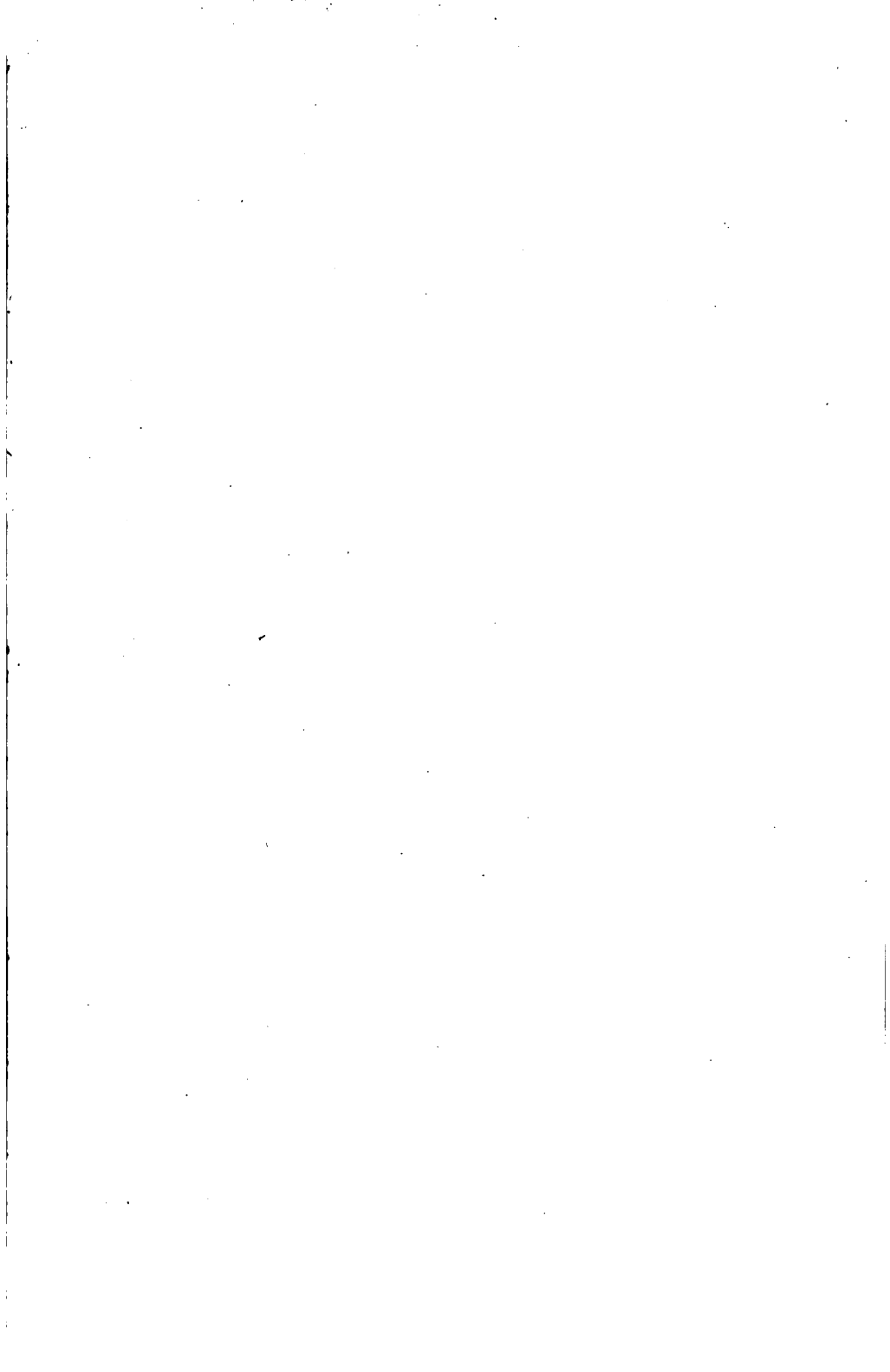
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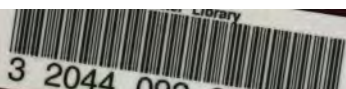
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Library



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